



Sembcorp Energy India Limited

CIN: U40103HR2008PLC095648

Regd. Office: 5th Floor, Tower C, Building No 8
DLF Cybercity, Gurgaon - 122002, Haryana, India

Tel (91) 124 389 6700 / 01

Fax (91) 124 389 6710

E-mail: cs.india@sembcorp.com

Website: www.sembcorpenergyindia.com

SEIL P2/APPCB/BZA/2021/005
28th September 2021

To
The Member Secretary
Andhra Pradesh Pollution Control Board
D. No. 33-26-14 D/2, Near Sunrise Hospital
Pushpa Hotel Centre, Chelamavari Street
Kasturibaipet
Vijayawada– 520010.

Sub.: Submission of Environment Statement for the year 2020-21 of Sembcorp Energy India Limited Project-2 (formerly known as Sembcorp Gayatri Power Limited – SGPL), Nellore.

Ref: CFO order issued to SGPL vide Ref: APPCB/HO/UH-IV/CFO: VJA/Auto Renewal-1/2017 – dated 29.01.2017 valid till 28.02.2022.

Dear Sir,

This has reference to captioned subject and the cited reference. Please find enclosed herewith Environment Statement of Sembcorp Energy India Limited Project-2 (formerly known as Sembcorp Gayatri Power Limited– SGPL), Nellore for the year 2020-21 duly filled in Form V.

Thanking you,

Yours faithfully,
For M/s. Sembcorp Energy India Limited

Pavan Kumar Rao V
Head HSE- SEIL

Encl: Environment Statement in Form-V along with Annexures

Copy To: The Regional Officer, APPCB, Nellore

ENVIRONMENTAL STATEMENT FOR THE YEAR 2020-21

of

**2x660 MW
Super Critical Coal Based Thermal Power Plant**

At

***Ananthavaram, Varakavipudi Villages
TP Gudur Mandal
SPSR Nellore District
Andhra Pradesh***

Submitted By

***Sembcorp Energy India Limited- Project-2
(Formerly known as Sembcorp Gayatri Power Limited)
SPSR NELLORE, ANDHRA PRADESH***

September 2021

FORM V
(See Rule 14)

Environmental Statement Report for the financial year ending the 31st March 2021

PART- A

- (i) Name and address of the Owner/Occupier of the Industry, Operation or process : Mr. Ramesh Raman
Plant Manager
Sembcorp Energy India Limited
Project-2
(Formerly known as Sembcorp Gayatri Power Limited)
Pyanampuram, Varakavipudi and Sivarampuram Villages,
Muthukur Mandal, SPSR Nellore
524 344
0861-3052311
0861-3052309
- (ii) Industry Category : -
(Coal based thermal power plant)
- (iii) Production capacity : 1320 MW (2X660 MW)
- (iv) Year of Establishment : Unit#1 (Nov 2016) & Unit#2 (Feb 2017)
- (V) Date of the last Environmental statement Submitted : 13th May 2020

PART- B

Water and Raw Material consumption

1. Water Consumption, m³/d:

- Plant Process : 10,393 m³/Day
Cooling : 1,65,907 m³/Day
Potable : 32 m³/Day

Name of Product	Process Water Consumption per Unit of Product Output	
	During the Previous Financial Year (2019-20)	During the Current Financial Year (2020-21)
Electricity	0.512 m ³ /MWH (Excl. Cooling Tower makeup) 6.99 m ³ /MWH (Incl. Cooling Tower makeup)	0.409 m ³ /MWH (Excl. Cooling Tower makeup) 6.94 m ³ /MWH (Incl. Cooling Tower makeup)

2. Raw Material Consumption

Name of Products	Name of Raw Materials	Unit	Consumption of raw material per unit of output	
			During the Previous Financial year (2019-20)	During the current Financial year (2020-21)
Electricity	Coal	MT/MWH	0.514	0.510
	Furnace Oil	ML/KWH	0.286	0.113

*Industry may use codes if disclosing details of raw materials would violate contractual obligations, otherwise all industries have to name the raw material used.

PART- C

Pollution Discharged to Environment/Unit of Output (Parameters as specified in the consent issued)

(i) Pollution	Quantity of pollutants discharged	Concentrations of pollutants in discharges (mass/volume)	Percentage of variation from prescribed standards with reasons
a) Water	Please refer Annexure-I (Effluent Water Quality third party Monitoring reports)		
b) Air	Please refer Annexure-II (Stack Emissions Quality third party Monitoring reports)		

PART- D

Hazardous Wastes

(As specified under Hazardous and Other Wastes (Management and Transboundary Movement) Rules, 2016)

(a) From Process:

S.No.	Hazardous Wastes	Total Quantity	
		During the Previous Financial year (2019-20)	During the Current Financial year (2020-21)
1	Expired Paints/ Paint Waste/ Empty Paint Cans	-	0.15 MT
2	Expired Chemicals/ Chemical Waste/ Empty Chemical	-	0.16 MT
3	Spent Ion Exchange Resins	-	0.26 MT
4	Oil Soaked or Chemicals coated Cotton waste	-	0.38
5	Used Oil Filters/ Damaged Filters	-	34 No's
6	ETP Sludge/ Oil Sludge	-	0
7	Used Lubricant Oil	31.8 KL	17.755 MT
8	Waste Oil from DG Sets	-	0
9	Aerosol Cans	-	70 No's

10	Used Empty Chemical Jar/ Bottles	-	67 No's
11	Used Empty PVC oil sample Bottles	-	0
12	Used Grease	-	9 No's
13	Lead Acid Batteries	60 No's	64 No's
14	E-Waste	6.83 MT	0.28 MT

PART- E
Solid Wastes

(b) From pollution control facilities:

S.No.	Solid Wates	Total Quantity	
		During the Previous Financial year (2019-20)	During the Current Financial year (2020-21)
1	Ash (Fly Ash+ Bottom Ash)	5,56,265	4,58,383

(C)

(1) Quantity recycled or re-utilized with in the plant:

S.No.	Solid Wates	Total Quantity	
		During the Previous Financial year (2019-20)	During the Current Financial year (2020-21)
1	Ash (Fly Ash+ Bottom Ash)	70,136	3,24,355

(2) Sold:

S.No.	Solid Wates	Total Quantity	
		During the Previous Financial year (2019-20)	During the Current Financial year (2020-21)
1	Ash (Fly Ash+ Bottom Ash)	9,00,880	10,65,368

(3) Disposed:

S.No.	Solid Wates	Total Quantity	
		During the Previous Financial year (2019-20)	During the Current Financial year (2020-21)
1	Ash (Fly Ash+ Bottom Ash)	-	-

PART- F

Please specify the characterization (in terms of composition and quantum) of hazardous as well as solid wastes and indicate disposal practice adopted for both these categories of wastes.

Characteristics of Solid Wastes

Fly Ash

Parameter	Unit	Fly Ash
Chromium (as Cr ⁺⁶)	mg/kg	BDL (DL: 1.0)
Chloride (as Cl)	%(w/w)	0.06
Arsenic (as As)	mg/kg	ND (DL: 0.5)
Selenium (as Se)	mg/kg	ND (DL: 0.5)
Lead (as Pb)	%(w/w)	0.0049
Mercury (as Hg)	mg/kg	ND (DL: 0.1)
1,4-Dioxane	mg/kg	BDL (DL: 1.0)

Disposal practice of Solid Waste:

(a) Disposal Practice of Hazardous Waste:

S.No.	Name of Hazardous Waste	Disposal Practice
1	Expired Paints/ Paint Waste/ Empty Paint Cans	Disposal to Authorized recyclers/ Reprocessors/ Incinerators
2	Expired Chemicals/ Chemical Waste/ Empty Chemical	Disposal to Authorized recyclers/ Reprocessors/ Incinerators
3	Spent Ion Exchange Resins	Disposal to Authorized recyclers/ Reprocessors/ Incinerators
4	Oil Soaked or Chemicals coated Cotton waste	Disposal to Authorized recyclers/ Reprocessors/ Incinerators
5	Used Oil Filters/ Damaged Filters	Disposal to Authorized recyclers/ Reprocessors/ Incinerators
6	ETP Sludge/ Oil Sludge	Disposal to Authorized recyclers/ Reprocessors/ Incinerators
7	Used Lubricant Oil	Disposal to Authorized recyclers/ Reprocessors/ Incinerators/ Pre-processors
8	Waste Oil from DG Sets	Disposal to Authorized recyclers/ Reprocessors/ Incinerators/ Pre-processors
9	Aerosol Cans	Disposal to Authorized recyclers/ Reprocessors/ Incinerators
10	Used Empty Chemical Jar/ Bottles	Disposal to Authorized recyclers/ Reprocessors/ Incinerators
11	Used Empty PVC oil sample Bottles	Disposal to Authorized recyclers/ Reprocessors/ Incinerators
12	Used Grease	Disposal to Authorized recyclers/ Reprocessors/ Incinerators
13	Lead Acid Batteries	Return to manufacturers/dealers on buyback basis/ Authorized recyclers
14	E-Waste	Authorized recyclers/ Reprocessors

(b) Disposal Practice of Solid Waste:

S.No.	Name of Solid Waste	Disposal Practice
1	Ash (Fly Ash+ Bottom Ash)	Utilization in Cement/ AAC blocks/ Brick Industry/ RMC/ Export to other countries/ Disposal in Ash pond/ Filling of Low lying Areas

PART- G

Impact of the pollution control measures on conservation of natural resources and on the cost of production.

- Bulk chemical storage areas are having dykes to handle any chemical leakages and avoid contamination to the ground.

Energy Conservation Initiatives

1. Replacement of existing lighting system with Energy efficient LED bulbs- 114 KW
2. Through Prudent O&M Practices like below the energy savings are up to 1.8 Kcal/Kwh
 - a) Enhancement of Heat energy drain passing valves and thermal insulations
3. Heat rate reduction of Approx. 5 Kcal/Kwh because of SPARK (Smart Performance Analysis for Real-time KPI) – Online cloud based performance monitoring system implemented to improve performance by tracking critical parameters like THR, Boiler Efficiency, GHR, Equipment performance and their loss breakups/gaps etc.,) and to control the various controllable losses on real time.
4. Boiler Computational Fluid Dynamics (CFD) modelling developed to analyze boiler performance and resulting in optimized performance.
 - Field log sheets replaced by Mobile app in order to digitalize in our internal operations. This enhances reduction in paper consumption.
 - A total of about Rs. 30 Lakh is spent on Environment monitoring, Waste disposal, Maintenance of Pollution Control Monitoring equipment like CEMS, CAAQMS & EQMS for the financial year 2020-21.
 - Regular monitoring of Ambient Air Quality, Stack emissions and Effluent quality have been taken up to evaluate the efficiency of the pollution control systems and control measures. Both CEMS, CAAQMS & EQMS are connected to APPCB / CPCB websites and data is being transmitted on real time basis.

PART- H

Additional measures/ investment proposal for environmental protection including abatement of pollution, prevention of pollution

Capital investment on Energy conservation equipment

- a) Purchase of (Smart Performance Analysis for Real-time KPI) SPARK Online tool at a cost of Rs. 65,00,000.
- SEIL has erected the structural platform for container stuffing (jumbo bags stuffing into container) for export purpose of Ash.
 - SEIL has hired two JCBs for free loading of pond ash to supply customers.
 - Bulk shipment and Break Bulk shipment done to USA around 70,000 MT (44K MT +26K MT)
 - Exploring the international markets.
 - Finding other modes of transportation of fly ash to the customers. (one Rake sent to Cement factory at Kerala around 3000 MT)
 - R&D study conducted on boiler tube failure reduction, chemical regime improvement and Oxide growth & exfoliation reduction by M/s Structural Integrity Associates Incorporation, USA, cost incurred around Rs. 23,11,000.
 - 407 acres of massive tree plantation done inside as well as outside of the Plant premises. Lawns/ gardens also are developed inside the plant premises to enhance aesthetics.
 - Conocarpus plantation is done all around the coal stack area to suppress the wind borne coal dust.
 - Upgraded DFDS System installed for dust suppression
 - All internal roads are either concreted or black topped to reduce the fugitive dust emission inside the plant premises.
 - Rainwater harvesting ponds are constructed in the site.
 - Good Housekeeping practices and 5S system has been implemented in the company by deploying approx. 200 No. of manpower.

PART- I

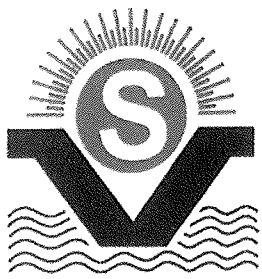
Any other particulars for improving the quality of environment

- Sembcorp Energy India Limited certified with ISO 9001:2015 (QMS), ISO 14001:2015 (EMS) & ISO 45001:2018 (OHS)
- More than **350 acres** of Greenbelt development completed inside & all along the periphery of the plant boundary
- World Environment Day celebrated to build up environmental awareness among employees and community


Pavan Kumar Rao
Head-HSE
On Behalf of Plant Head

Mr. Ramesh Raman
Plant Manager
Sembcorp Energy India Limited
Date: 28-09-2021

ANNEXURE- I



SV ENVIRO LABS & CONSULTANTS

(Environmental Engineers & Consultants in Pollution Control)

Corporate Office : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012
& Laboratory www.svenvirolabs.com, Ph:0891-2755528, Cell: +91 9440338628
info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Branch Office : 2-53, Mahipala Street, Yanam - 533464.

Recognized by Govt.of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET



Ref. No: SVELC/SCEIL/20-04/06

Dated: 25-05-2020

ISSUED TO : **M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.**

DESCRIPTION OF SAMPLE : **TREATED EFFLUENT**

DATE OF COLLECTION : **April'20 – (21/04/2020)**

DATE OF RECEIPT : **April'20 – (24/04/2020)**

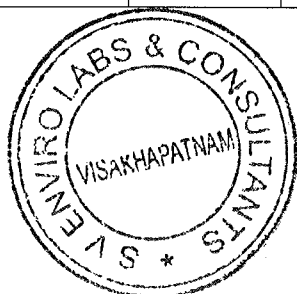
SOURCE OF COLLECTION : **ETP OUTLET**

SAMPLE COLLECTED BY : **SV ENVIRO LABS & CONSULTANTS,
Visakhapatnam**

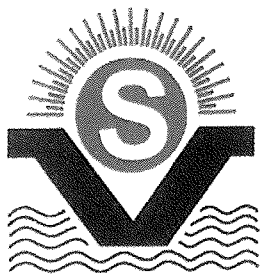
TEST REPORT

S. No.	Parameters	Units	Results	Method	Standard
1.	pH at 25°C	-	7.57	APHA 23 rd Ed,2017, 4500 H+B	5.5-9.0
2.	Total Dissolved Solids – TDS	mg/l	1464	APHA 23 rd Ed,2017, 2540 C	2100
3.	Total Suspended Solids – TSS	mg/l	51.0	APHA 23 rd Ed,2017, 2540 D	200
4.	Chemical Oxygen Demand – COD	mg/l	148	APHA 23 rd Ed,2017, 5220 B	250
5.	Bio chemical Oxygen Demand – BOD 3days at 27°C	mg/l	44.0	IS: 3025 (Part- 44)-1993, reaffirmed 2009	100
6.	Oil & Grease	mg/l	1.5	APHA 23 rd Ed,2017, 5520 B	10

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For SV ENVIRO LABS & CONSULTANTS



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Ref. No: SVELC/SCEIL/20-04/07

Dated: 25-05-2020

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF SAMPLE : MARINE WATER

DATE OF COLLECTION : April'20 – (21/04/2020)

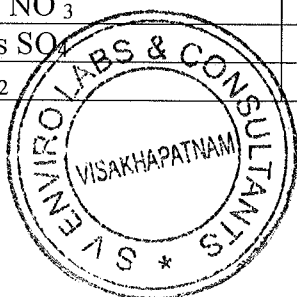
DATE OF RECEIPT : April'20 – (24/04/2020)

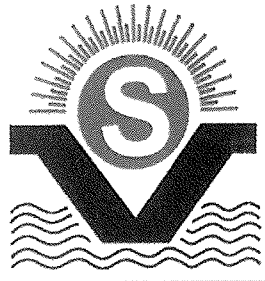
SOURCE OF COLLECTION : MARINE OUTLET

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS,
Visakhapatnam

TEST REPORT

S.No	Parameter	Unit	Result	Standards
1.	pH	-	7.51	6.5-8.0
2.	Temperature Intake	°C	32.4	Shall not exceed 5°C above the receiving temperature
3.	Temperature Outfall	°C	34.4	
4.	Electrical Conductivity	ms/cm		-
5.	Turbidity	NTU	4.5	-
6.	Total Dissolved Solids	mg/l	22448	-
7.	Total Suspended Solids	mg/l	82.0	100
8.	Total Alkalinity as CaCO ₃	mg/l	638	-
9.	P-Alkalinity as CaCO ₃	mg/l	Nil	-
10.	Total Hardness as CaCO ₃	mg/l		-
11.	Calcium as Ca	mg/l	1210	-
12.	Magnesium as Mg	mg/l	895	-
13.	Chlorides as Cl	mg/l	12614	-
14.	Fluorides as F	mg/l	0.76	-
15.	Nitrates as NO ₃	mg/l	1.21	-
16.	Sulphates as SO ₄	mg/l	898	-
17.	Silica as SiO ₂	mg/l	0.58	-





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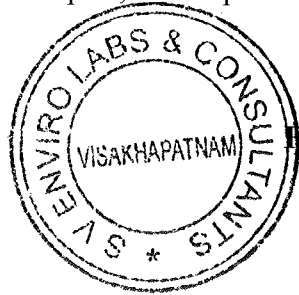
Recognized by Govt.of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET



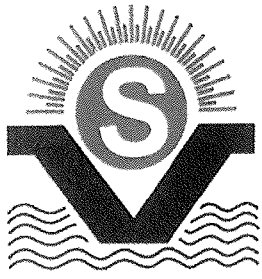
18.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.005	-
19.	Sodium as Na	mg/l	5992	-
20.	Potassium as K	mg/l	218	-
21.	Carbonates as CaCO ₃	mg/l	Nil	-
22.	Bicarbonates as CaCO ₃	mg/l	638	-
23.	Iron as Fe	mg/l	2.8	-
24.	Copper as Cu	mg/l	0.64	-
25.	Manganese as Mn	mg/l	0.35	-
26.	Zinc as Zn	mg/l	0.63	-
27.	Boron as B	mg/l	0.02	-
28.	Selenium as Se	mg/l	< 0.005	-
29.	Cadmium as Cd	mg/l	<0.001	2.0
30.	Cyanide as CN	mg/l	<0.01	-
31.	Lead as Pb	mg/l	<0.01	2.0
32.	Mercury as Hg	mg/l	<0.001	0.01
33.	Hexavalent Chromium as Cr ⁺⁶	mg/l	<0.001	1.0
34.	Total Arsenic as As	mg/l	<0.01	0.2
35.	Chemical Oxygen Demand-COD	mg/l	67.8	250
36.	Bio-Chemical Oxygen Demand (27 ^o C @ 3days)-BOD	mg/l	26.0	100
37.	Oil & Grease	mg/l	<1.0	20

Note: As per the above report, all the parameters are analyzed as per APHA, 23rd Ed,2017.

Y. J. K. 
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For SV ENVIRO LABS & CONSULTANTS



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Ref. No: SVELC/SCEIL/20-04/08

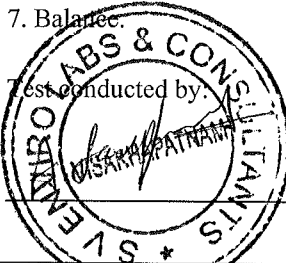
Dated: 25-05-2020

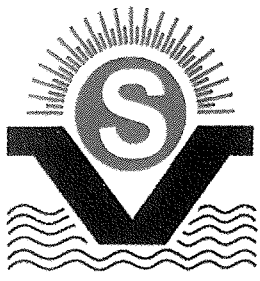
ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

SAMPLE PARTICULARS : MARINE WATER

SOURCE OF COLLECTION : MARINE OUTFALL

DATE OF COLLECTION : 21-04-2020

STATIC ACUTE TOXICITY DATA SHEET			
SAMPLE PARTICULARS : GUARD POND EFFLUENT SAMPLE			
TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For fish)	
Zebra Fish	Through vendors.	1.Length <u>4.6 (cm)</u> 2.Weight <u>3.8(gm)</u>	1.Fish were not fed <u>yes</u> 2.Temperature range in aquaria <u>25°c</u>
REFERENCE TEST DATA			
Start Date :24-04-2020 End Date : 28-04-2020			
COMMENTS:			
The test species was undergone toxicity test for about 96hrs.			
RESULT: 100% survival of fish was noticed			
INSTRUMENTS USED:			
1. pH meter. 2. D.O meter. 3. Thermometer. 4. Glass aquarium. 5. Low flow pump. 6. Aerator 7. Balance.			
Test conducted by: 			



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Ref. No: SVELC/SCEIL/20-09/06

Dated: 10-10-2020

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF SAMPLE : TREATED EFFLUENT

DATE OF COLLECTION : September'20 – (18/09/2020)

DATE OF RECEIPT : September'20 – (21/09/2020)

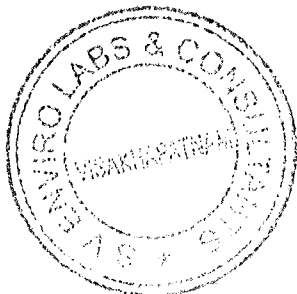
SOURCE OF COLLECTION : ETP OUTLET

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS,
Visakhapatnam

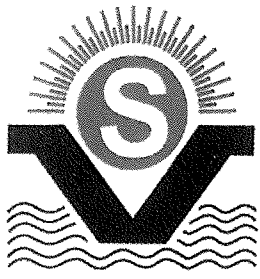
TEST REPORT

S. No.	Parameters	Units	Results	Method	Standard
1.	pH at 25°C	-	7.59	APHA 23 rd Ed,2017, 4500 H+B	5.5-9.0
2.	Total Dissolved Solids – TDS	mg/l	1426	APHA 23 rd Ed,2017, 2540 C	2100
3.	Total Suspended Solids – TSS	mg/l	49.0	APHA 23 rd Ed,2017, 2540 D	200
4.	Chemical Oxygen Demand – COD	mg/l	132	APHA 23 rd Ed,2017, 5220 B	250
5.	Bio chemical Oxygen Demand – BOD 3days at 27°C	mg/l	37.0	IS: 3025 (Part- 44)-1993, reaffirmed 2009	100
6.	Oil & Grease	mg/l	1.5	APHA 23 rd Ed,2017, 5520 B	10


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For SV ENVIRO LABS & CONSULTANTS



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Ref. No: SVELC/SCEIL/20-09/07

Dated: 10-10-2020

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF SAMPLE : MARINE WATER

DATE OF COLLECTION : September'20 – (18/09/2020)

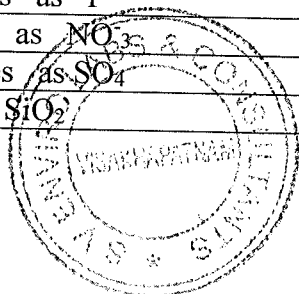
DATE OF RECEIPT : September'20 – (21/09/2020)

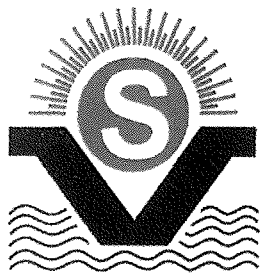
SOURCE OF COLLECTION : MARINE OUTLET

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS,
Visakhapatnam

TEST REPORT

S.No	Parameter	Unit	Result	Standards
1.	pH	-	7.58	6.5-8.0
2.	Temperature Intake	°C	32.5	Shall not exceed 5°C above the receiving temperature
3.	Temperature Outfall	°C	34.2	
4.	Electrical Conductivity	ms/cm	37858	-
5.	Turbidity	NTU	6.5	-
6.	Total Dissolved Solids	mg/l	22413	-
7.	Total Suspended Solids	mg/l	81.0	100
8.	Total Alkalinity as CaCO ₃	mg/l	574	-
9.	P-Alkalinity as CaCO ₃	mg/l	Nil	-
10.	Total Hardness as CaCO ₃	mg/l	6753	-
11.	Calcium as Ca	mg/l	1210	-
12.	Magnesium as Mg	mg/l	906	-
13.	Chlorides as Cl	mg/l	10264	-
14.	Fluorides as F	mg/l	0.76	-
15.	Nitrates as NO ₃	mg/l	0.33	-
16.	Sulphates as SO ₄	mg/l	890	-
17.	Silica as SiO ₂	mg/l	0.52	-





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info@svenviolabs.com, svenviro_labs@yahoo.co.in

Branch Office : 2-53, Mahipala Street, Yanam - 533464.

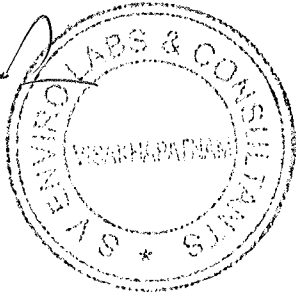
Recognized by Govt.of India-MoEF & CC, New Delhi, Accredited by : NABL & NABET



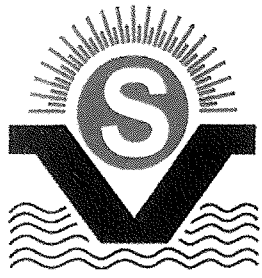
18.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.005	-
19.	Sodium as Na	mg/l	5228	-
20.	Potassium as K	mg/l	198	-
21.	Carbonates as CaCO ₃	mg/l	Nil	-
22.	Bicarbonates as CaCO ₃	mg/l	959	-
23.	Iron as Fe	mg/l	2.8	-
24.	Copper as Cu	mg/l	0.65	-
25.	Manganese as Mn	mg/l	0.39	-
26.	Zinc as Zn	mg/l	0.70	-
27.	Boron as B	mg/l	0.02	-
28.	Selenium as Se	mg/l	< 0.005	-
29.	Cadmium as Cd	mg/l	<0.001	2.0
30.	Cyanide as CN	mg/l	<0.01	-
31.	Lead as Pb	mg/l	<0.01	2.0
32.	Mercury as Hg	mg/l	<0.001	0.01
33.	Hexavalent Chromium as Cr ⁺⁶	mg/l	<0.001	1.0
34.	Total Arsenic as As	mg/l	<0.01	0.2
35.	Chemical Oxygen Demand-COD	mg/l	69.2	250
36.	Bio-Chemical Oxygen Demand (27°C @ 3days)-BOD	mg/l	27.0	100
37.	Oil & Grease	mg/l	1.0	20

Note: As per the above report, all the parameters are analyzed as per APHA, 23rd Ed,2017.


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Ref. No: SVELC/SCEIL/20-09/08


Dated: 10-10-2020

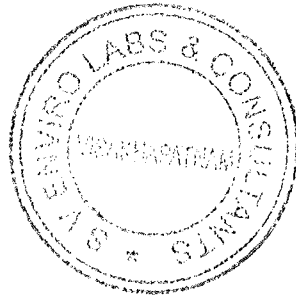
ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

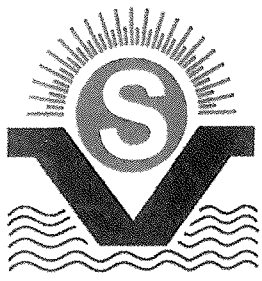
SAMPLE PARTICULARS : MARINE WATER

SOURCE OF COLLECTION : MARINE OUTFALL

DATE OF COLLECTION : 18-09-2020

STATIC ACUTE TOXICITY DATA SHEET			
SAMPLE PARTICULARS : GUARD POND EFFLUENT SAMPLE			
TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For fish)	
Mulloyidictyus flavolineatus (Goat fish)	Through vendors.	1.Length <u>4.6 (cm)</u> 2.Weight <u>3.8(gm)</u>	1.Fish were not fed <u>yes</u> 2.Temperature range in aquaria <u>25°c</u>
REFERENCE TEST DATA			
Start Date :21-09-2020 End Date : 25-09-2020			
COMMENTS:			
The test species was undergone toxicity test for about 96hrs.			
RESULT: 100% survival of fish was noticed			
INSTRUMENTS USED:			
1. pH meter. 2. D.O meter. 3. Thermometer. 4. Glass aquarium. 5. Low flow pump. 6.Aerator 7. Balance.			
Test conducted by: 			





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Ref. No: SVELC/SCEIL/21-01/06

Dated: 12-02-2021

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF SAMPLE : TREATED EFFLUENT

DATE OF COLLECTION : January'21 – (21/01/2021)

DATE OF RECEIPT : January'21 – (22/01/2021)

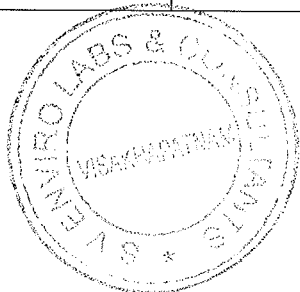
SOURCE OF COLLECTION : ETP OUTLET

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS,
Visakhapatnam

TEST REPORT

S. No.	Parameters	Units	Results	Method	Standard
1.	pH at 25°C	-	7.62	APHA 23 rd Ed,2017, 4500 H+B	5.5-9.0
2.	Total Dissolved Solids – TDS	mg/l	1530	APHA 23 rd Ed,2017, 2540 C	2100
3.	Total Suspended Solids – TSS	mg/l	54	APHA 23 rd Ed,2017, 2540 D	200
4.	Chemical Oxygen Demand – COD	mg/l	156	APHA 23 rd Ed,2017, 5220 B	250
5.	Bio chemical Oxygen Demand – BOD 3days at 27°C	mg/l	48	IS: 3025 (Part- 44)-1993, reaffirmed 2009	100
6.	Oil & Grease	mg/l	1.7	APHA 23 rd Ed,2017, 5520 B	10

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J. S. S.
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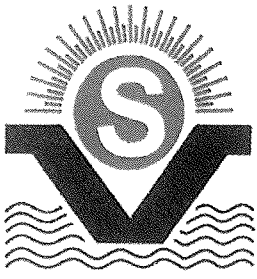
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Ref. No: SVELC/SCEIL/21-01/07

Dated: 12-02-2021

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF SAMPLE : MARINE WATER

DATE OF COLLECTION : January'21 – (21/01/2021)

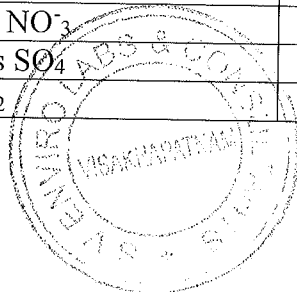
DATE OF RECEIPT : January'21 – (22/01/2021)

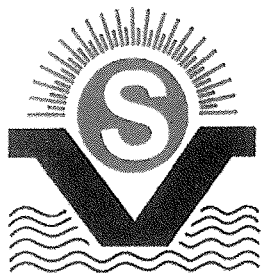
SOURCE OF COLLECTION : MARINE OUTLET

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS,
Visakhapatnam

TEST REPORT

S.No	Parameter	Unit	Result	Standards
1.	pH	-	7.44	6.5-8.0
2.	Temperature Intake	°C	32.7	Shall not exceed 5°C above the receiving temperature
3.	Temperature Outfall	°C	34.6	
4.	Electrical Conductivity	ms/cm	39250	-
5.	Turbidity	NTU	5.0	-
6.	Total Dissolved Solids	mg/l	22752	-
7.	Total Suspended Solids	mg/l	88	100
8.	Total Alkalinity as CaCO ₃	mg/l	698	-
9.	P-Alkalinity as CaCO ₃	mg/l	Nil	-
10.	Total Hardness as CaCO ₃	mg/l	7039	-
11.	Calcium as Ca	mg/l	1275	-
12.	Magnesium as Mg	mg/l	936	-
13.	Chlorides as Cl	mg/l	12720	-
14.	Fluorides as F	mg/l	0.79	-
15.	Nitrates as NO ₃	mg/l	1.26	-
16.	Sulphates as SO ₄	mg/l	920	-
17.	Silica as SiO ₂	mg/l	0.61	-





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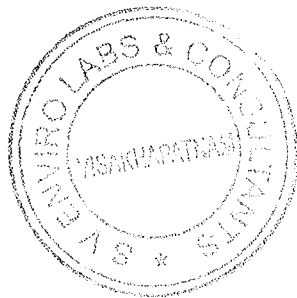
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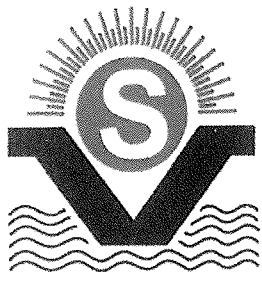
18.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.005	-
19.	Sodium as Na	mg/l	6096	-
20.	Potassium as K	mg/l	225	-
21.	Carbonates as CaCO ₃	mg/l	Nil	-
22.	Bicarbonates as CaCO ₃	mg/l	698	-
23.	Iron as Fe	mg/l	3.0	-
24.	Copper as Cu	mg/l	0.67	-
25.	Manganese as Mn	mg/l	0.37	-
26.	Zinc as Zn	mg/l	0.66	-
27.	Boron as B	mg/l	0.03	-
28.	Selenium as Se	mg/l	< 0.005	-
29.	Cadmium as Cd	mg/l	<0.001	2.0
30.	Cyanide as CN	mg/l	<0.01	-
31.	Lead as Pb	mg/l	<0.01	2.0
32.	Mercury as Hg	mg/l	<0.001	0.01
33.	Hexavalent Chromium as Cr ⁺⁶	mg/l	<0.001	1.0
34.	Total Arsenic as As	mg/l	<0.01	0.2
35.	Chemical Oxygen Demand-COD	mg/l	71.2	250
36.	Bio-Chemical Oxygen Demand (27°C @ 3days)-BOD	mg/l	28	100
37.	Oil & Grease	mg/l	<1.0	20

Note: As per the above report, all the parameters are analyzed as per APHA, 23rd Ed,2017.

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CHECKED BY :



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Ref. No: SVELC/SCEIL/21-01/08

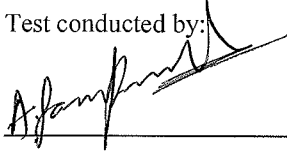

Dated: 12-02-2021

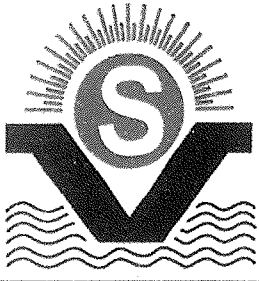
ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

SAMPLE PARTICULARS : MARINE WATER

SOURCE OF COLLECTION : MARINE OUTFALL

DATE OF COLLECTION : 21-01-2021

STATIC ACUTE TOXICITY DATA SHEET			
SAMPLE PARTICULARS : GUARD POND EFFLUENT SAMPLE			
TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For fish)	
Zebra Fish	Through vendors.	1.Length <u>4.6 (cm)</u> 2.Weight <u>3.8(gm)</u>	1.Fish were not fed <u>yes</u> 2.Temperature range in aquaria <u>25°c</u>
REFERENCE TEST DATA			
Start Date :25-01-2021 End Date : 29-01-2021			
COMMENTS:			
The test species was undergone toxicity test for about 96hrs. RESULT: 100% survival of fish was noticed			
INSTRUMENTS USED:			
1. pH meter. 2. D.O meter. 3. Thermometer. 4. Glass aquarium. 5. Low flow pump. 6.Aerator 7. Balance.			
Test conducted by:  			



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Ref. No: SVELC/SCEIL/21-03/06

Dated: 30-03-2021

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF SAMPLE : TREATED EFFLUENT

DATE OF COLLECTION : March'21 – (18/03/2021)

DATE OF RECEIPT : March'21 – (19/03/2021)

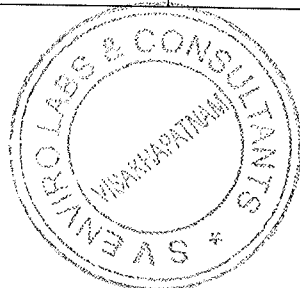
SOURCE OF COLLECTION : ETP OUTLET

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS,
Visakhapatnam

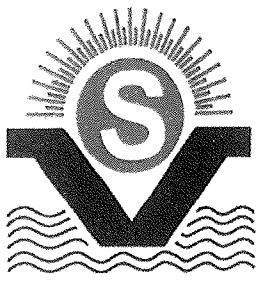
TEST REPORT

S. No.	Parameters	Units	Results	Method	Standard
1.	pH at 25°C	-	7.66	APHA 23 rd Ed,2017, 4500 H+B	5.5-9.0
2.	Total Dissolved Solids – TDS	mg/l	1622	APHA 23 rd Ed,2017, 2540 C	2100
3.	Total Suspended Solids – TSS	mg/l	58	APHA 23 rd Ed,2017, 2540 D	200
4.	Chemical Oxygen Demand – COD	mg/l	164	APHA 23 rd Ed,2017, 5220 B	250
5.	Bio chemical Oxygen Demand – BOD 3days at 27°C	mg/l	51.0	IS: 3025 (Part- 44)-1993, reaffirmed 2009	100
6.	Oil & Grease	mg/l	1.5	APHA 23 rd Ed,2017, 5520 B	10


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Ref. No: SVELC/SCEIL/21-03/07

Dated: 30-03-2021

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF SAMPLE : MARINE WATER

DATE OF COLLECTION : March'21 – (18/03/2021)

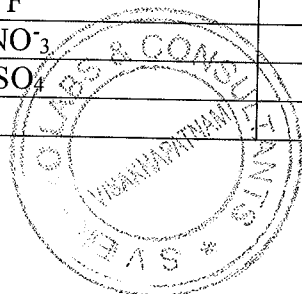
DATE OF RECEIPT : March'21 – (19/03/2021)

SOURCE OF COLLECTION : MARINE OUTLET

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS,
Visakhapatnam

TEST REPORT

S.No	Parameter	Unit	Result	Standards
1.	pH	-	7.46	6.5-8.0
2.	Temperature Intake	°C	32.6	Shall not exceed 5°C above the receiving temperature
3.	Temperature Outfall	°C	34.3	
4.	Electrical Conductivity	ms/cm	39056	-
5.	Turbidity	NTU	4.9	-
6.	Total Dissolved Solids	mg/l	22358	-
7.	Total Suspended Solids	mg/l	81	100
8.	Total Alkalinity as CaCO ₃	mg/l	674	-
9.	P-Alkalinity as CaCO ₃	mg/l	Nil	-
10.	Total Hardness as CaCO ₃	mg/l	6778	-
11.	Calcium as Ca	mg/l	1206	-
12.	Magnesium as Mg	mg/l	912	-
13.	Chlorides as Cl	mg/l	12484	-
14.	Fluorides as F	mg/l	0.77	-
15.	Nitrates as NO ₃	mg/l	1.30	-
16.	Sulphates as SO ₄	mg/l	914	-
17.	Silica as SiO ₂	mg/l	0.57	-



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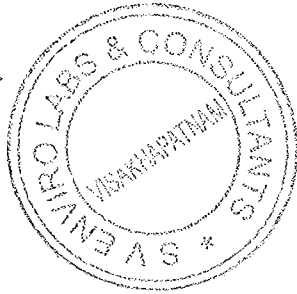
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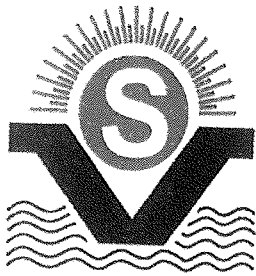
18.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.005	-
19.	Sodium as Na	mg/l	5824	-
20.	Potassium as K	mg/l	206	-
21.	Carbonates as CaCO ₃	mg/l	Nil	-
22.	Bicarbonates as CaCO ₃	mg/l	674	-
23.	Iron as Fe	mg/l	2.6	-
24.	Copper as Cu	mg/l	0.65	-
25.	Manganese as Mn	mg/l	0.32	-
26.	Zinc as Zn	mg/l	0.63	-
27.	Boron as B	mg/l	0.02	-
28.	Selenium as Se	mg/l	< 0.005	-
29.	Cadmium as Cd	mg/l	<0.001	2.0
30.	Cyanide as CN	mg/l	<0.01	-
31.	Lead as Pb	mg/l	<0.01	2.0
32.	Mercury as Hg	mg/l	<0.001	0.01
33.	Hexavalent Chromium as Cr ⁺⁶	mg/l	<0.001	1.0
34.	Total Arsenic as As	mg/l	<0.01	0.2
35.	Chemical Oxygen Demand-COD	mg/l	69.2	250
36.	Bio-Chemical Oxygen Demand (27°C @ 3days)-BOD	mg/l	27.0	100
37.	Oil & Grease	mg/l	<1.0	20

Note: As per the above report, all the parameters are analyzed as per APHA, 23rd Ed,2017.


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For SV ENVIRO LABS & CONSULTANTS



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Ref. No: SVELC/SCEIL/21-03/08

Dated: 30-03-2021

ISSUED TO

: M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

SAMPLE PARTICULARS

: MARINE WATER

SOURCE OF COLLECTION

: MARINE OUTFALL

DATE OF COLLECTION

: 18-03-2021

STATIC ACUTE TOXICITY DATA SHEET

SAMPLE PARTICULARS : GUARD POND EFFLUENT SAMPLE

TEST SPECIES	SOURCE OF ORGANISM	LENGTH & WEIGHT (For fish)	
Zebra Fish	Through vendors.	1.Length <u>4.6 (cm)</u> 2.Weight <u>3.8(gm)</u>	1.Fish were not fed <u>yes</u> 2.Temperature range in aquaria <u>25°c</u>

REFERENCE TEST DATA

Start Date :19-03-2021

End Date : 22-03-2021

COMMENTS:

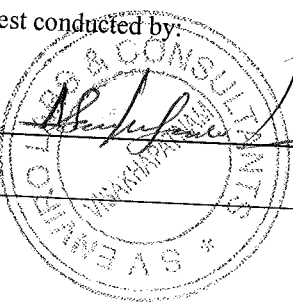
The test species was undergone toxicity test for about 96hrs.

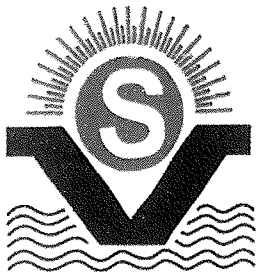
RESULT: 100% survival of fish was noticed

INSTRUMENTS USED:

1. pH meter.
2. D.O meter.
3. Thermometer.
4. Glass aquarium.
5. Low flow pump.
6. Aerator
7. Balance.

Test conducted by:





SV ENVIRO LABS & CONSULTANTS

(Environmental Engineers & Consultants in Pollution Control)

Corporate Office : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012

& Laboratory www.svenviolabs.com, Ph:0891-2755528, Cell: +91 9440338628

info@svenviolabs.com, svenviro_labs@yahoo.co.in

Branch Office : 2-53, Mahipala Street, Yanam - 533464.

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Ref. No: SVELC/SCEIL/21-03/26

Dated: 30-03-2021

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V), Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF SAMPLE : WASTE WATER

DATE OF COLLECTION : March'21 – (18/03/2021)

DATE OF RECEIPT : March'21 – (19/03/2021)

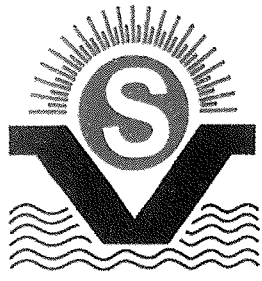
SOURCE OF COLLECTION : ASH POND OUTLET

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS,
Visakhapatnam

TEST REPORT

S.No	Parameter	Unit	Result	Acceptable Limit	Permissible Limit
1.	pH	-	7.56	6.5-8.0	No Relaxation
2.	Color	Hazen	1.4	5	15
3.	Odor	-	Agreeable	Agreeable	Agreeable
4.	Electrical Conductivity	ms/cm	934	-	--
5.	Turbidity	NTU	1.1	1.0	5
6.	Total Dissolved Solids	mg/l	552	500	2000
7.	Total Suspended Solids	mg/l	10	1000	-
8.	Total Alkalinity as CaCO ₃	mg/l	194	200	600
9.	P-Alkalinity as CaCO ₃	mg/l	Nil	-	-
10.	Total Hardness as CaCO ₃	mg/l	217	200	600
11.	Calcium as Ca	mg/l	60.4	75	200
12.	Magnesium as Mg	mg/l	16.1	30	100
13.	Chlorides as Cl	mg/l	176	250	1000
14.	Fluorides as F	mg/l	0.52	1.0	1.5
15.	Nitrates as NO ₃	mg/l	0.60	45	No Relaxation
16.	Sulphates as SO ₄	mg/l	75.3	200	-
17.	Silica as SiO ₂	mg/l	0.33	0.05	-
18.	Phenolic Compounds as C ₆ H ₅ OH	mg/l	<0.001	0.001	0.002
19.	Sodium as Na	mg/l	84	-	-
20.	Potassium as K	mg/l	0.58	-	-





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& Laboratory www.svenviolabs.com, Ph:0891-2755528, Cell: +91 9440338628
info@svenviolabs.com, svenviro_labs@yahoo.co.in

Branch Office : 2-53, Mahipala Street, Yanam - 533464.

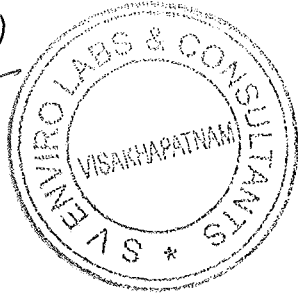
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21.	Iron as Fe	mg/l	1.92	0.3	No Relaxation
22.	Copper as Cu	mg/l	0.58	0.05	1.5
23.	Manganese as Mn	mg/l	0.34	0.1	0.3
24.	Zinc as Zn	mg/l	0.57	5	15
25.	Boron as B	mg/l	0.03	0.5	1.0
26.	Selenium as Se	mg/l	< 0.005	0.01	No Relaxation
27.	Cadmium as Cd	mg/l	<0.001	0.003	No Relaxation
28.	Cyanide as CN	mg/l	<0.01	0.05	No Relaxation
29.	Lead as Pb	mg/l	<0.01	0.01	No Relaxation
30.	Mercury as Hg	mg/l	<0.001	0.001	No Relaxation
31.	Hexavalent Chromium as Cr ⁺⁶	mg/l	<0.001	0.005	1.0
32.	Total Arsenic as As	mg/l	<0.01	-	0.2
33.	Phosphate as PO ₄	mg/l	0.49	-	-

Note: As per the above report, all the parameters are analyzed as per APHA, 23rd Ed, 2017.


CHECKED BY




For SV ENVIRO LABS & CONSULTANTS



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TEST REPORT

REF.NO: UEA/SGPL/R2/0420

Date: 10-04-20

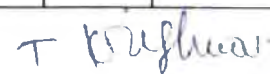
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 03-04-2020
Date of Analysis : 03-04-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.24	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	598	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	14.2	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	63	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.4	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10


Analyst


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Ph: 040 - 2763 3361, e-mail: uea123@gmail.com, www.universalenviro.in

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REF.NO: UEA/SGPL/R2/0420

Date: 17-04-20

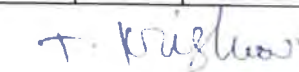
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.**

Sample Particulars : S.T.P Outlet
Date of collection : 10-04-2020
Date of Analysis : 10-04-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.32	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	654	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	15.7	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	63	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	18.4	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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TEST REPORT

REF.NO: UEA/SGPL/R2/0420

Date: 24-04-20

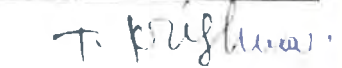
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 17-04-2020
Date of Analysis : 17-04-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.23	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	659	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.4	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.8	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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TEST REPORT

REF.NO: UEA/SGPL/R2/0420

Date: 30-04-20

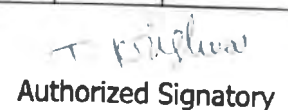
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 24-04-2020
Date of Analysis : 24-04-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.41	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	650	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	10.4	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	63	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.6	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl-B	0.5	--
8	Fecal Coilforms per 100ml	MPN/ 100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.12	<1.0


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Date: 11-05-20

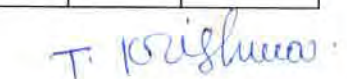
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 04-05-2020
Date of Analysis : 04-05-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.12	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	606	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	13.8	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	18.4	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.1	10


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Date: 18-05-20

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Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 11-05-2020
Date of Analysis : 11-05-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.26	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	648	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	16.1	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	58	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	16.6	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.2	10

Analyst
Analyst

T. Prishwa
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REF.NO: UEA/SGPL/R2/0520

Date: 26-05-20

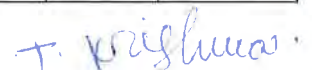
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 18-05-2020
Date of Analysis : 18-05-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.13	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	662	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	11.8	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	61	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	18.4	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.2	10


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REF.NO: UEA/SGPL/R2/0520

Date: 01-06-20

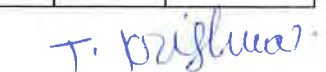
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 26-05-2020
Date of Analysis : 26-05-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.36	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	641	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	11.3	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	58	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	20.2	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.1	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl-B	0.6	--
8	Fecal Coilforms per 100ml	MPN/100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.10	<1.0


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TEST REPORT

REF.NO: UEA/SGPL/R2/0620

Date: 12-06-2020

WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 05-06-2020
Date of Analysis : 05-06-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.24	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	598	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	14.2	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	63	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	15.1	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10

Analyst

T. Krishna
Authorized Signatory

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TEST REPORT

REF.NO: UEA/SGPL/R2/0620

Date: 19-06-2020

WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 12-06-2020
Date of Analysis : 12-06-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.32	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	654	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	15.7	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	63	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	14.9	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10

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TEST REPORT

REF.NO: UEA/SGPL/R2/0620

Date: 26-06-2020

WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 19-06-2020
Date of Analysis : 19-06-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.23	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	659	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.4	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	16.1	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10

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TEST REPORT

REF.NO: UEA/SGPL/R2/0620

Date: 01-07-2020

WASTEWATER ANALYSIS

Name of the Industry & : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Address Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 26-06-2020
Date of Analysis : 26-06-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.41	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	650	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	10.4	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	63	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	18.4	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl-B	0.5	--
8	Fecal Coilforms per 100ml	MPN/100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.12	<1.0

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REF.NO: UEA/SGPL/R2/0720

Date: 14-07-2020

WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 07-07-2020
Date of Analysis : 07-07-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	6.98	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	605	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.2	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	61	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	17.1	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10


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REF.NO: UEA/SGPL/R2/0720

Date: 21-07-2020


WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 14-07-2020
Date of Analysis : 14-07-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.30	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	645	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	14.3	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	18.4	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.1	10


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REF.NO: UEA/SGPL/R2/0720

Date: 28-07-2020

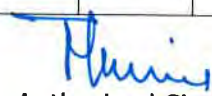
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 21-07-2020
Date of Analysis : 21-07-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.35	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	651	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.4	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	61	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	17.9	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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TEST REPORT

Date: 01-08-2020

WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 28-07-2020
Date of Analysis : 28-07-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.40	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	632	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	10.1	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	63	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.2	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.1	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl·B	0.5	--
8	Fecal Coilforms per 100ml	MPN/100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN·	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.14	<1.0


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Date: 13-08-2020

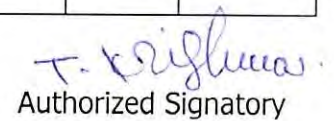
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 06-08-2020
Date of Analysis : 06-08-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.23	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	623	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.5	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.7	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10


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REF.NO: UEA/SGPL/R2/0820

Date: 23-08-2020

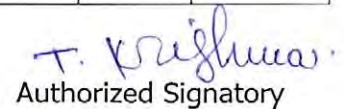
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 13-08-2020
Date of Analysis : 13-08-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.47	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	658	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.1	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	64	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	21.2	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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REF.NO: UEA/SGPL/R2/0820

TEST REPORT

Date: 27-08-2020

WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 23-08-2020
Date of Analysis : 23-08-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.50	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	596	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	13.6	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	62	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.4	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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TEST REPORT

REF.NO: UEA/SGPL/R2/0820

Date: 01-09-2020

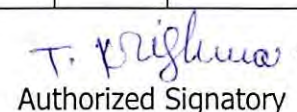
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 27-08-2020
Date of Analysis : 27-08-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.44	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	586	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	11.7	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.3	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl ⁻ B	0.5	--
8	Fecal Coilforms per 100ml	MPN/100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN ⁻	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.12	<1.0


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REF.NO: UEA/SGPL/R2/0920

Date: 11-09-2020

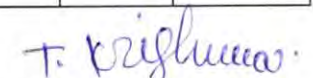
WASTEWATER ANALYSIS

Name of the Industry & Address: **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 04-09-2020
Date of Analysis : 04-09-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.25	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	654	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	11.6	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	67	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	21.1	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10


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TEST REPORT

REF.NO: UEA/SGPL/R2/0920

Date: 18-09-2020

WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 11-09-2020
Date of Analysis : 11-09-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.12	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	655	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.6	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	20.8	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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TEST REPORT

REF.NO: UEA/SGPL/R2/0920

Date: 25-09-2020

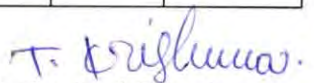
WASTEWATER ANALYSIS

Name of the Industry & Address: **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 18-09-2020
Date of Analysis : 18-09-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.36	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	602	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	11.7	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.8	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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REF.NO: UEA/SGPL/R2/0920

Date: 29-09-2020

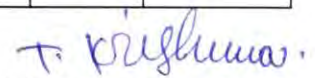
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 25-09-2020
Date of Analysis : 25-09-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.48	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	581	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	11.7	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	21.7	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl-B	0.5	--
8	Fecal Coilforms per 100ml	MPN/100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.08	<1.0


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REF.NO: UEA/SGPL/R2/1119

Date:15-10-2020

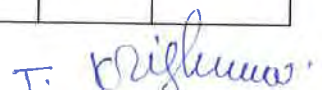
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 08-10-2020
Date of Analysis : 08-10-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.33	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	678	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.9	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	69	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	20.7	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10


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Date:22-10-2020

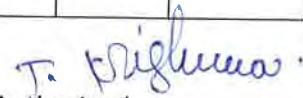
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 15-10-2020
Date of Analysis : 15-10-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.25	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	726	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	10.8	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	66	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.1	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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Date:29-10-2020


WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 22-10-2020
Date of Analysis : 22-10-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.45	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	657	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	10.4	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	68	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	20.5	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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Date:02-11-2020

WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : S.T.P Outlet
Date of collection : 29-10-2020
Date of Analysis : 29-10-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.49	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	651	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	11.9	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	68	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.9	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl-B	0.5	--
8	Fecal Coilforms per 100ml	MPN/100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	<0.1	<1.0


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Date: 12-11-2020

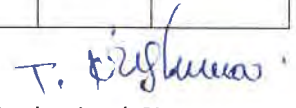
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 05-11-2020
Date of Analysis : 05-11-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.38	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	657	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	13.6	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	63	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	20.7	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.8	10


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Date: 19-11-2020

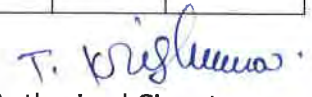
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 12-11-2020
Date of Analysis : 12-11-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.14	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	712	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.6	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	66	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	21.4	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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Date: 24-11-2020

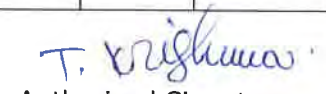
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 19-11-2020
Date of Analysis : 19-11-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.09	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	654	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	10.4	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	67	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	20.3	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


Analyst


T. Vignesh
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REF.NO: UEA/SGPL/R2/1120

Date: 01-12-2020

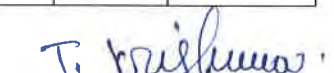
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 24-11-2020
Date of Analysis : 24-11-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.24	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	657	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	11.4	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	21.2	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl-B	0.5	--
8	Fecal Coilforms per 100ml	MPN/100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.07	<1.0


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
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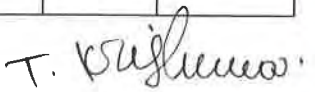
WASTEWATER ANALYSIS

Name of the Industry & : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Address Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 03-12-2020
Date of Analysis : 03-12-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.39	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	665	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.1	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	62	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	21.1	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10


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WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 10-12-2020
Date of Analysis : 10-12-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.28	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	689	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.9	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	65	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	21.8	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.1	10


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WASTEWATER ANALYSIS

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Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 17-12-2020
Date of Analysis : 17-12-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.24	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	675	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	10.3	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	68	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	20.3	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.8	10


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WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 23-12-2020
Date of Analysis : 23-12-2020

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.18	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	675	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	13.2	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	64	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	22.4	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl ⁻ B	0.5	--
8	Fecal Coilforms per 100ml	MPN/100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN ⁻	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.08	<1.0

AAA
Analyst

T. Vishwas
Authorized Signatory

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Date: 13-01-2021

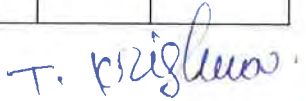
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 06-01-2021
Date of Analysis : 06-01-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.30	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	665	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.4	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	56	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.8	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10


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Date: 20-01-2021

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Address Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 13-01-2021
Date of Analysis : 13-01-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.41	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	646	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	10.3	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	54	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	17.8	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.1	10


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REF.NO: UEA/SGPL/R2/0121

Date: 27-01-2021

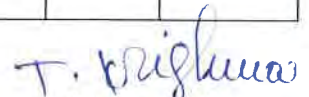
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 20-01-2021
Date of Analysis : 20-01-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.30	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	675	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	10.3	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	52	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	18.6	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.7	10


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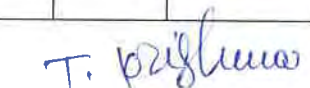
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 27-01-2021
Date of Analysis : 27-01-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.36	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	648	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	11.2	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	54	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	16.3	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl-B	0.5	--
8	Fecal Coilforms per 100ml	MPN/ 100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.07	<1.0


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Date: 11-02-2021

WASTEWATER ANALYSIS

Name of the Industry & : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Address Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 04-02-2021
Date of Analysis : 04-02-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.36	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	648	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.1	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	60	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.4	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10


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Date: 19-02-2021

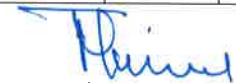
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 11-02-2021
Date of Analysis : 11-02-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.04	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	790	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	14.2	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	59	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	16.9	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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Date: 24-02-2021

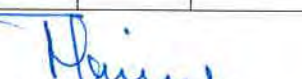
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 19-02-2021
Date of Analysis : 19-02-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.15	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	941	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.3	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	60	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	19.7	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.7	10


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Date: 01-03-2021


WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 24-02-2021
Date of Analysis : 24-02-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.04	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	861	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.1	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	59	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	17.2	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl ⁻ B	0.5	--
8	Fecal Coilforms per 100ml	MPN/ 100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN ⁻	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.08	<1.0


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TEST REPORT

REF.NO: UEA/SGPL/R2/0321

Date: 10-03-2021

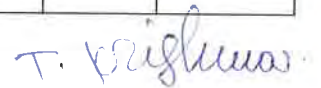
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 03-03-2021
Date of Analysis : 03-03-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.12	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	947	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	9.4	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	51	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	17.6	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.9	10


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Date: 17-03-2021

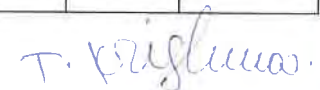
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 10-03-2021
Date of Analysis : 10-03-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.04	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	790	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	14.2	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	48	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	14.6	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	1.0	10


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Date: 24-03-2021

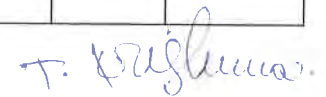
WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 17-03-2021
Date of Analysis : 17-03-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.04	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	669	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.3	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	42	250
5	Bio Chemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	13.8	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.7	10


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WASTEWATER ANALYSIS

Name of the Industry & Address : **M/s. SEMBCORP ENERGY INDIA LTD. (PROJECT-2),**
Ananthavaram (V),
TP Gudur (M),
SPSR Nellore Dt., Andhra Pradesh.

Sample Particulars : STP Outlet
Date of collection : 24-03-2021
Date of Analysis : 24-03-2021

S No	Parameter	Units	Method	Result	Standards
1	pH @ 25.0°C	---	APHA 23 rd Edition,2017, 4500 H+ B	7.14	5.5-9.0
2	Total Dissolved Solids	mg/L	APHA 23 rd Edition,2017, 2540 C	885	2100
3	Total Suspended Solids	mg/L	APHA 23 rd Edition,2017, 2540 D	12.2	100
4	Chemical Oxygen Demand	mg/L	APHA 23 rd Edition,2017: 5220 B	48	250
5	Biochemical Oxygen Demand (27°C@ 3 Days)	mg/L	IS: 3025 (Part-44)-1993, reaffirmed 2009	15.1	100
6	Oil & Grease	mg/L	APHA 23 rd Edition,2017: 5520 B	0.8	10
7	Free Residual Chlorine	mg/L	APHA 23 rd Edition,2017: 4500 Cl-B	0.5	--
8	Fecal Coilforms per 100ml	MPN/100 ml	IS:1622:1981	Absent	--
9	Arsenic as As	mg/L	APHA 23 rd Edition,2017: 3114 As	BDL	<0.2
10	Cyanide as CN	mg/L	APHA 23 rd Edition,2017: 4500 CN	BDL	<0.2
11	Total Copper	mg/L	APHA 23 rd Edition,2017: 3500 Cu	BDL	<1.0
12	Total Iron	mg/L	APHA 23 rd Edition,2017: 3500 Fe	0.08	<1.0


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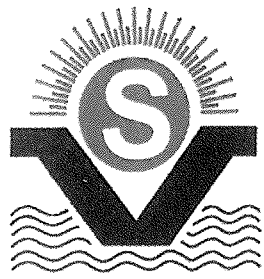
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ANNEXURE- II



SV ENVIRO LABS & CONSULTANTS

(Environmental Engineers & Consultants in Pollution Control)

Corporate Office : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012
& Laboratory www.svenvirolabs.com, Ph:0891-2755528, Cell: +91 9440338628
info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Branch Office : 2-53, Mahipala Street, Yanam - 533464.

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Ref. No: SVELC/SCEIL/20-04/01

Dated: 25-04-2020

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V)
Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF WORK : STACK MONITORING

MONTH OF MONITORING : April'20 – (21/04/2020)

PARAMETERS REQUIRED : PM, SO₂, NO_x and Hg

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS, Visakhapatnam

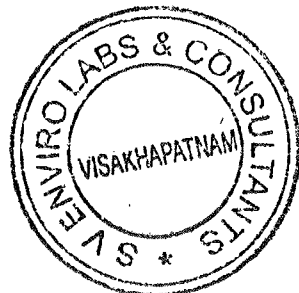
Instrument Used	Stack Monitoring Kit	Flue Gas Analyser
Instrument Sl. Number	109-DTI-2018	054518373
Date of Calibration	12.07.2019	20.11.2019
Next Calibration Due	11.07.2020	21.11.2020

TEST REPORT

S. No.	Parameters	Standards	Results		Methods
Details of the Source					
1.	Stack attached to	-	UNIT-I (660 MW)	UNIT-II (660 MW)	-
2.	Stack Diameter (m)	-	6.9	6.9	-
3.	Stack Crosssectional Area (sq.m)	-	37.37	37.37	-
4.	Load of the Unit (MW)	-	630	650	-
Flue Gas Characteristics					
5.	Time of Monitoring	-	13.30	15.30	-
6.	Temperature (Kelvin)	-	398	408	IS:11255(P-1)1985
7.	Velocity (m/s)	-	18.3	17.7	IS:11255(P-1)1985
8.	Volumetric Flow Rate (Nm ³ /Hr)	-	1831420	1727958	IS:11255(P-1)1985
9.	CO in ppm	-	15.3	12.1	Flue Gas Analyzer
Emission Rates					
10.	Particulate Matter in mg/Nm ³	50	38.4	40.6	IS:11255(P-1)1985
11.	Sulphur dioxide in mg/Nm ³	-	968	940	IS:11255(P-II)1985
12.	Oxides of Nitrogen in mg/Nm ³	-	410	365	IS:11255(P-7)2005
13.	Mercury as Hg in mg/Nm ³	0.03	<0.01	<0.01	CPCB Guidelines

Note: The above results are corrected to 6% O₂.

4. J. K.
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(Environmental Engineers & Consultants in Pollution Control)

Corporate Office : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012
& Laboratory www.svenviolabs.com, Ph:0891-2755528, Cell: +91 9440338628
info@svenviolabs.com, svenviro_labs@yahoo.co.in

Branch Office : 2-53, Mahipala Street, Yanam - 533464.

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Ref. No: SVELC/SCEIL/20-09/01

Dated: 10-10-2020

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V)
Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF WORK : STACK MONITORING

MONTH OF MONITORING : September'20 – (18/09/2020)

PARAMETERS REQUIRED : PM, SO₂, NO_x and Hg

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS, Visakhapatnam

Instrument Used	Stack Monitoring Kit	Flue Gas Analyser
Instrument Sl. Number	109-DTI-2018	054518373
Date of Calibration	11.07.2020	21.11.2019
Next Calibration Due	10.07.2021	20.11.2020

TEST REPORT

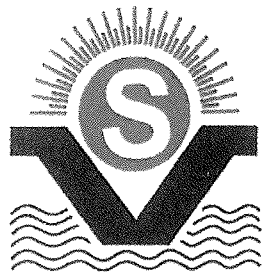
S. No.	Parameters	Standards	Results		Methods
Details of the Source					
1.	Stack attached to	-	UNIT-I (660 MW)	UNIT-II (660 MW)	-
2.	Stack Diameter (m)	-	6.9	6.9	-
3.	Stack Crosssectional Area (sq.m)	-	37.37	37.37	-
4.	Load of the Unit (MW)	-	630	650	-
Flue Gas Characteristics					
5.	Time of Monitoring	-	13.30	15.30	-
6.	Temperature (Kelvin)	-	386	394	IS:11255(P-1)1985
7.	Velocity (m/s)	-	16.7	16.5	IS:11255(P-1)1985
8.	Volumetric Flow Rate (Nm ³ /Hr)	-	1724258	1667902	IS:11255(P-1)1985
9.	CO in ppm	-	14.6	10.7	Flue Gas Analyzer
Emission Rates					
10.	Particulate Matter in mg/Nm ³	50	28.9	32.1	IS:11255(P-1)1985
11.	Sulphur dioxide in mg/Nm ³	-	824	786	IS:11255(P-II)1985
12.	Oxides of Nitrogen in mg/Nm ³	-	372	299	IS:11255(P-7)2005
13.	Mercury as Hg in mg/Nm ³	0.03	<0.01	<0.01	CPCB Guidelines

Note: The above results are corrected to 6% O₂.


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(Environmental Engineers & Consultants in Pollution Control)

Corporate Office : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012
& Laboratory www.svenvirolabs.com, Ph:0891-2755528, Cell: +91 9440338628
info@svenvirolabs.com, svenviro_labs@yahoo.co.in

Branch Office : 2-53, Mahipala Street, Yanam - 533464.

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Ref. No: SVELC/SCEIL/21-01/01

Dated: 12-02-2021

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V)
Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF WORK : STACK MONITORING

MONTH OF MONITORING : January'21 – (21/01/2021)

PARAMETERS REQUIRED : PM, SO₂, NO_x and Hg

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS, Visakhapatnam

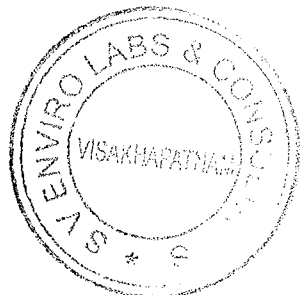
Instrument Used	Stack Monitoring Kit	Flue Gas Analyser
Instrument Sl. Number	109-DTI-2018	054518373
Date of Calibration	11.07.2020	19.11.2020
Next Calibration Due	10.07.2021	18.11.2021

TEST REPORT

S. No.	Parameters	Standards	Results		Methods
Details of the Source					
1.	Stack attached to	-	UNIT-I (660 MW)	UNIT-II (660 MW)	-
2.	Stack Diameter (m)	-	6.9	6.9	-
3.	Stack Crossectional Area (sq.m)	-	37.37	37.37	-
4.	Load of the Unit (MW)	-	630	650	-
Flue Gas Characteristics					
5.	Time of Monitoring	-	13.45	15.45	-
6.	Temperature (Kelvin)	-	392	402	IS:11255(P-1)1985
7.	Velocity (m/s)	-	17.8	17.2	IS:11255(P-1)1985
8.	Volumetric Flow Rate (Nm ³ /Hr)	-	1808647	1704207	IS:11255(P-1)1985
9.	CO in ppm	-	14.9	11.2	Flue Gas Analyzer
Emission Rates					
10.	Particulate Matter in mg/Nm ³	50	32.4	34.5	IS:11255(P-1)1985
11.	Sulphur dioxide in mg/Nm ³	-	890	825	IS:11255(P-II)1985
12.	Oxides of Nitrogen in mg/Nm ³	-	388	320	IS:11255(P-7)2005
13.	Mercury as Hg in mg/Nm ³	0.03	<0.01	<0.01	CPCB Guidelines

Note: The above results are corrected to 6% O₂.

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J. S.
For SV ENVIRO LABS & CONSULTANTS



SV ENVIRO LABS & CONSULTANTS

(Environmental Engineers & Consultants in Pollution Control)

Corporate Office : Enviro House, B-1, Block-B, IDA, Autonagar, Visakhapatnam-530012
& Laboratory www.svenvirolabs.com, Ph:0891-2755528, Cell: +91 9440338628
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Ref. No: SVELC/SCEIL/21-03/01

Dated: 30-03-2021

ISSUED TO : M/s. SEMB CORP ENERGY INDIA LIMITED P-2,
Painampuram (V)
Muthukur (M),
SPSR NELLORE DISTRICT,
ANDHRA PRADESH.

DESCRIPTION OF WORK : STACK MONITORING

MONTH OF MONITORING : March'21 – (18/03/2021)

PARAMETERS REQUIRED : PM, SO₂, NO_x and Hg

SAMPLE COLLECTED BY : SV ENVIRO LABS & CONSULTANTS, Visakhapatnam

Instrument Used	Stack Monitoring Kit	Flue Gas Analyser
Instrument Sl. Number	109-DTI-2018	054518373
Date of Calibration	11.07.2020	19.11.2020
Next Calibration Due	10.07.2021	18.11.2021

TEST REPORT

S. No.	Parameters	Standards	Results		Methods
Details of the Source					
1.	Stack attached to	-	UNIT-I (660 MW)	UNIT-II (660 MW)	-
2.	Stack Diameter (m)	-	6.9	6.9	-
3.	Stack Crossectional Area (sq.m)	-	37.37	37.37	-
4.	Load of the Unit (MW)	-	630	650	-
Flue Gas Characteristics					
5.	Time of Monitoring	-	14.00	16.00	-
6.	Temperature (Kelvin)	-	410	424	IS:11255(P-1)1985
7.	Velocity (m/s)	-	19.8	19.5	IS:11255(P-1)1985
8.	Volumetric Flow Rate (Nm ³ /Hr)	-	1923342	1831656	IS:11255(P-1)1985
9.	CO in ppm	-	14.9	11.2	Flue Gas Analyzer
Emission Rates					
10.	Particulate Matter in mg/Nm ³	50	35.1	36.9	IS:11255(P-1)1985
11.	Sulphur dioxide in mg/Nm ³	-	911	836	IS:11255(P-II)1985
12.	Oxides of Nitrogen in mg/Nm ³	-	376	352	IS:11255(P-7)2005
13.	Mercury as Hg in mg/Nm ³	0.03	<0.01	<0.01	CPCB Guidelines

Note: The above results are corrected to 6% O₂.


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