



# TECHNO INDIA NJR INSTITUTE OF TECHNOLOGY

Approved by AICTE & Affiliated to Rajasthan Technical University

www.technonjr.org

NJR Knowledge Campus, Plot-SPL-T, Bhamashah (RIICO) Industrial Area, Kaladwas, Udaipur - 313003 (Raj.)  
Tel. : +91 2942650214-17 Fax :+91 2942650218, Email : technonjr@gmail.com, director@technonjr.org

<b>Metric ID</b> 7.1.6	<b>Quality audits on environment and energy regularly undertaken by the Institution and any awards received for such green campus initiatives:</b> 1.Green audit 2.Energy audit 3.Environment audit 4.Clean and green campus recognitions / awards 5.Beyond the campus environmental promotion activities
<b>DVV Findings</b>	Please provide as per SOP the certificates from Govt or Govt recognised agencies or from competent authority

पंकज चौखाल

Techno India NJR Institute of Technology  
Plot-SPLT, Bhamashah (RIICO) Industrial Area  
Kaladwas, Udaipur-313003 (Rajasthan)

# the certificates from competent authorities for Green Audit Including Air, Water and Noise Test

## Ambient Air Quality



### OZONE TEST HOUSE LABORATORY

ISO 9001: 2015 Certified Environmental & Chemical Testing Laboratory

Report No.20210209004

Date: - 11.02.2021

#### TEST CERTIFICATE (AMBIENT AIR QUALITY)

- Name of customer : Techno NJR Institute of Technology  
Plot-SPL-T, Bhamashah (RIICO) Industrial Area,  
Kaladwas, Udaipur 313003 (Rajasthan) India
- Name of Location : College Campus
- Date & Time of monitoring : 08.02.2021 -11:00 AM to 09.02.2021 -10:55 AM
- Ambient weather condition : Temp. 22°C, Humidity 48%
- Method of sampling : IS:5182 (Part2, Part6, Part23) & Instrument manual
- Total Sampling Time : 1390 min.
- Average Flow Rate : 1.165 M<sup>3</sup>/Min.
- Sample collection by : Ozone Test House

#### TEST RESULTS

S. No.	Parameter	Test Method	Unit	Result	CPCB (Norms)
1	PM 10	IS:5182 (Part 23)2006 Reaff 2012	µg/M <sup>3</sup>	73.65	100
2.	PM 2.5	IS:5182 (Part 24)	µg/M <sup>3</sup>	50.73	60
2	SO <sub>2</sub>	IS:5182 (Part 2)-2001 Reaff 2006	µg/M <sup>3</sup>	11.20	80
3	NO <sub>2</sub>	IS:5182 (Part 6)-2006	µg/M <sup>3</sup>	16.52	80
4	CO	By CO meter	mg/M <sup>3</sup>	0.46	04

Authorized Signatory

(Dr. Dinesh Kumar Kumawat)

- The test results listed refers only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
- Sample description is not verified in all cases and is given "As Described" by customers. Sample not drawn by us and analysis conducted "As received basis" unless specified otherwise.
- Sample disposed after suitable retaining period.
  - Perishable items- immediately after reporting.
  - Water sample- after one week of reporting.
  - Non-perishable item- after four weeks of reporting.
- Any complaint about this report should be communicated in writing with in 7 days of issue of this report.
- This report is not to be reproduced wholly or in part and can not be used as evidence in a court of Law and shall not be used in advertising media without permission of CEO in writing.
- All disputes are subject to Udaipur jurisdiction.
- Declaration: The Results represent only the samples received by the Laboratory.

----- END OF THE REPORT-----

www.ozonetesthouse.com

Registered Address: 18- Meeranagar, Dhikli Road, Pratapnagar, Udaipur - 313001 (Rajasthan)

E-mail: ozonetesthouse@gmail.com, Mob.: +917976684545, +919929519805

For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)



**Air / Noise Test conducted in Institute**

For Techno India NJR Institute of Technology  
पंकज पोखवाल  
Dr. Pankaj Kumar Porwal  
(Principal)

# Ambient Noise Report



**OZONE TEST HOUSE  
LABORATORY**  
ISO 9001: 2015 Certified Environmental & Chemical Testing Laboratory

Report No.20210209005

Date: - 11.02.2021

## TEST CERTIFICATE (AMBIENT NOISE)

- Name of customer : Techno NJR Institute of Technology  
Plot-SPL-T, Bhamashah (RIICO) Industrial Area,  
Kaladwas, Udaipur 313003 (Rajasthan) India
- Name of Location : College Campus
- Date & Time of monitoring : 08.02.2021 -11:00 AM
- Ambient weather condition : Temp. 22°C, Humidity 48%
- Method of sampling : IS:9989- 1981 Reaff. 2014
- Sample collection by : Ozone Test House

### NOISE MONITORING RESULTS

S.No.	Parameter	Unit	Result	
			Minimum	Maximum
1.	Main Gate	dB (A)	55.2	62.5
2.	College Library	dB (A)	44.3	49.8
3.	College Classroom	dB (A)	44.6	48.2

Authorized Signatory

(Dr. Dinesh Kumar Kumawat)

- The test results listed refers only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
- Sample description is not verified in all cases and is given "As Described" by customers. Sample not drawn by us and analysis conducted "As received basis" unless specified otherwise.
- Sample disposed after suitable retaining period.
  - Perishable Items- immediately after reporting.
  - Water sample- after one week of reporting.
  - Non-perishable item- after four weeks of reporting.
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E-mail: ozonetesthouse@gmail.com, Mob.: +917976684545, +919929519805

For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)

# Water Quality Report



## RAHUL ENGINEERS LABORATORY

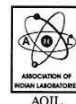
(A Govt. of Rajasthan Regd. MSME Unit)

ISO 9001:2015 Certified & ISO/IEC 17025:2005 Accredited Laboratory  
By NABL (Quality Council of India)

MSME-UAN-RJ 33E 0009668  
Udyog Adhar No. - RJ33E0009668  
GSTIN - 08AEVPP3102K1Z5  
PAN - AEVPP 3102 K



NABL Cert. No. TC-7954



AOIL

FACILITIES : Testing of Cement, Aggregate, Bricks, Concrete, TMT Steel Bar, Paver Block, Bitumen, Bituminous Mix, Soil, Sand, Rock, Water, Ores & Minerals, Quartz, Feldspar, Soapstone, Diatomaceous / Siliceous Earth, Lime Stone, Dolomite, China Clay, Iron Ore & Bauxite

5-A, Chitrakut Nagar, Bhuwana By-pass Road, Udaipur (Raj.) PIN 313 001, INDIA, Tel. : +91-294-2440317  
Cell : +91 6350324167, +91 8107343935, E-mail : rahul.labudr@gmail.com, Website : www.rahulengineers.com

Report No: - REL-Chem./201384-1

Format No.-REL/7.8/Chem./TR/F-2

ULR No-TC795421000000241F

Date: - 09.02.2021

### TEST REPORT

(Water)

1	Name of Customer	:	<b>Techno India NJR Institute of Technology, Billiya, Kaladwas, Udaipur (Raj.)</b>
2	Customer Contact No.	:	8696932800, 8696932731, (lokesh.malviya@technonjr.org)
3	Customer Reference No.	:	Service Request, Date:- 05.02.21
4	Type of Sample	:	Water
5	Sample Identification	:	.....
6	Date & Mode of Receipt of Sample	:	05.02.21, Sample submitted by customer.
7	REL Job No.	:	REL-201384-1
8	Name of Work	:	Testing of Water
9	Location	:	R.O. Water
10	Date of Sampling	:	.....
11	Date of Testing	:	06.02.21 to 08.02.21

#### Test Results:-

S. No	Parameters	Results	Specification for Drinking Water as per IS:10500: 2012		Test Method reference of IS: 3025
			Requirement (Acceptable Limit) (max.)	Permissible Limit in the Absence of Alternate Source (max.)	
1	pH at 25°C	7.6	6.5 to 8.5	No relaxation	Part-11
2	TDS (mg/l)	486.0	500	2000	Part-16
3	Chlorides as Cl (mg/l)	64.0	250	1000	Part-32
4	Salinity by Calculation (gms/kg)	0.1455	.....	.....	APHA AWWA WPCF (16 <sup>th</sup> Edition)
5	Conductivity (MicroMhos/cm)	872.0	.....	.....	Part-14

**Remarks:** - 1. The parameters in Bold are not in Acceptable Limit but within Permissible Limit in the absence of alternate source.  
2. The parameters in Bold with \* are not in Permissible Limit.

Tested By:

*(S.C. Parikh)*  
(S.C. Parikh)

Tech. Manager (Chem.)

Issued By:  
*(M.P. Jain)*  
(M.P. Jain)  
Gen. Manager

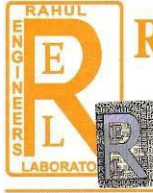
#### Note: -

1. Test report is authentic only if contain hallmark and seal.
2. The test results refer only to the samples received in the Laboratory.
3. Rahul Engineers Laboratory shall not in any way be involved in any action following the interpretation of test results.
4. Any discrepancy in test results should be reported within 15 days.
5. This report shall not be reproduced except in full without written approval from Rahul Engineers Laboratory.
6. Subject to Udaipur Jurisdiction only.

End of Report

Page 1 of 1

For Techno India NJR Institute of Technology  
*पंकज पोखवाल*  
Dr. Pankaj Kumar Porwal  
(Principal)

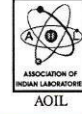


# RAHUL ENGINEERS LABORATORY

(A Govt. of Rajasthan Regd. MSME Unit)

ISO 9001:2015 & ISO/IEC 17025:2017 Certified Laboratory

Udhog Adhar No. - RJ33E0009668  
GSTIN - 08AEVPP3102K125  
PAN - AEVPP 3102 K



FACILITIES : Testing of Cement, Aggregate, Bricks, Concrete, TMT Steel Bar, Paver Block, Bitumen, Bituminous mix, Soil, Sand, Rock, Water, Ores & Minerals, Quartz, Feldspar, Soapstone, Diatomaceous / Siliceous Earth, Lime Stone, Dolomite, China Clay, Iron Ores & Bauxite, Geo-Tech investigation & NDT of concrete structure, Calibration of CTM, UTM, Force Proving ring & Pressure Gauges.

5-A, Chitrakut Nagar, Bhuwana By-pass Road, Udaipur (Raj.) PIN 313 001, INDIA  
Cell : +91 6350324167, +91 8107343935, E-mail : lab@rahulengineers.com, Website : www.rahulengineers.com

Format No.-REL/7.8/Chem./TR/F-2

Date: - 09.02.2021

Report No: - REL-Chem. /201384-1/NA

## TEST REPORT

(Water)

1	Name of Customer	:	<b>Techno India NJR Institute of Technology, Billiya, Kaladwas, Udaipur (Raj.)</b>
2	Customer Contact No.	:	8696932800, 8696932731 , (lokesh.malviya@technonjr.org)
3	Customer Reference No.	:	Service Request, Date:- 05.02.21
4	Type of Sample	:	Water
5	Sample Identification	:	.....
6	Date & Mode of Receipt of Sample	:	05.02.21, Sample submitted by customer.
7	REL Job No.	:	REL-201384-1
8	Name of Work	:	Testing of Water
9	Location	:	R.O. Water
10	Date of Sampling	:	.....
11	Date of Testing	:	06.02.21 to 08.02.21

### Test Results:-

S. No	Parameters	Results	Specification for Drinking Water as per IS:10500: 2012		Test Method reference of IS: 3025
			Requirement (Acceptable Limit) (max.)	Permissible Limit in the Absence of Alternate Source (max.)	
1	Most Probable no. of Coli form/100 ml of water	Zero	Shall not be detectable in any 100ml sample		IS 1622:1981
2	Sodium as Na (mg/l)	40.0	.....	.....	Part-45
3	Potassium as K (mg/l)	1.4	.....	.....	

**Remarks:** - 1. The parameters in Bold are not in Acceptable Limit but within Permissible Limit in the absence of alternate source.  
2. The parameters in Bold with \* are not in Permissible Limit.  
3. This report is in continuation to our report no. REL-Chem. /201384-1, Date: - 09.02.2021.

Tested By:

(S.C. Parikh)

Tech. Manager (Chem.)



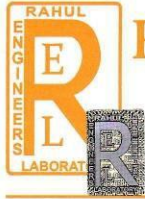
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End of Report

Page 1 of 1

For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)



# RAHUL ENGINEERS LABORATORY

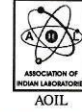
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Udhyog Adhar No. - RJ33E0009668  
GSTIN - 08AEVPP3102K1Z5  
PAN - AEVPP 3102 K



NABL Cert. No. TC-7954



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Cell : +91 6350324167, +91 8107343935, E-mail : rahul.labudr@gmail.com, Website : www.rahulengineers.com

Report No: - REL-Chem./201384-2

Format No.-REL/7.8/Chem./TR/F-2

ULR No-TC795421000000242F

Date: - 09.02.2021

## TEST REPORT

(Water)

1	Name of Customer	:	<b>Techno India NJR Institute of Technology, Billiya, Kaladwas, Udaipur (Raj.)</b>
2	Customer Contact No.	:	8696932800, 8696932731, (lokesh.malviya@technonjr.org)
3	Customer Reference No.	:	Service Request, Date:- 05.02.21
4	Type of Sample	:	Water
5	Sample Identification	:	.....
6	Date & Mode of Receipt of Sample	:	05.02.21, Sample submitted by customer.
7	REL Job No.	:	REL-201384-2
8	Name of Work	:	Testing of Water
9	Location	:	Bore Well Water
10	Date of Sampling	:	.....
11	Date of Testing	:	06.02.21 to 08.02.21

### Test Results:-

S. No	Parameters	Results	Specification for Drinking Water as per IS:10500: 2012		Test Method reference of IS: 3025
			Requirement (Acceptable Limit) (max.)	Permissible Limit in the Absence of Alternate Source (max.)	
1	pH at 25°C	7.3	6.5 to 8.5	No relaxation	Part-11
2	TDS (mg/l)	424.0	500	2000	Part-16
3	Chlorides as Cl (mg/l)	66.0	250	1000	Part-32
4	Salinity by Calculation (gms/kg)	0.1491	.....	.....	APHA AWWA WPCF (16 <sup>th</sup> Edition)
5	Conductivity (MicroMhos/cm)	923.0	.....	.....	Part-14

**Remarks:** - 1. The parameters in Bold are not in Acceptable Limit but within Permissible Limit in the absence of alternate source.  
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Tested By:

(S.C. Parikh)

Tech. Manager (Chem.)

(P. Jam)  
Gen. Manager

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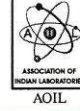


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Udhyog Adhar No. - RJ33E0009668  
GSTIN - 08AEVPP3102K1Z5  
PAN - AEVPP 3102 K



FACILITIES : Testing of Cement, Aggregate, Bricks, Concrete, TMT Steel Bar, Paver Block, Bitumen, Bituminous mix, Soil, Sand, Rock, Water, Ores & Minerals, Quartz, Feldspar, Soapstone, Diatomaceous / Siliceous Earth, Lime Stone, Dolomite, China Clay, Iron Ores & Bauxite, Geo-Tech investigation & NDT of concrete structure, Calibration of CTM, UTM, Force Proving ring & Pressure Gauges.

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Format No.-REL/7.8/Chem./TR/F-2

Date: - 09.02.2021

Report No: - REL-Chem. /201384-2/NA

## TEST REPORT

(Water)

1	Name of Customer	:	<b>Techno India NJR Institute of Technology, Billiya, Kaladwas, Udaipur (Raj.)</b>
2	Customer Contact No.	:	8696932800, 8696932731, (lokesh.malviya@technonjr.org)
3	Customer Reference No.	:	Service Request, Date:- 05.02.21
4	Type of Sample	:	Water
5	Sample Identification	:	.....
6	Date & Mode of Receipt of Sample	:	05.02.21, Sample submitted by customer.
7	REL Job No.	:	REL-201384-2
8	Name of Work	:	Testing of Water
9	Location	:	Bore Well Water
10	Date of Sampling	:	.....
11	Date of Testing	:	06.02.21 to 08.02.21

### Test Results:-

S. No	Parameters	Results	Specification for Drinking Water as per IS:10500: 2012		Test Method reference of IS: 3025
			Requirement (Acceptable Limit) (max.)	Permissible Limit in the Absence of Alternate Source (max.)	
1	Most Probable no. of Coli form/100 ml of water	Zero	Shall not be detectable in any 100ml sample		IS 1622:1981
2	Sodium as Na (mg/l)	40.0	.....	.....	Part-45
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**Remarks:** - 1. The parameters in Bold are not in Acceptable Limit but within Permissible Limit in the absence of alternate source.  
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Tech. Manager (Chem.)



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End of Report

For Techno India NJR Institute of Technology

Dr. Pankaj Kumar Porwal

(Principal)



## the certificates from competent authorities for Energy Audit



### Sonaa Engineers Pvt. Limited

REGD. & H.O. : 30B—311, Sh lbham, 11-A, Kumbha Marg, New Fafehprira, Udaipur— 313 C04 (Ftaj.)  
Mr : 0294-2526102, 241.5793 Fax: 2526302 Email: sonaaengGgm1.com/sonaal inAyahoo.co.in

GST No. : 08AACCS8789H1ZO

SEPL/UDR/2020-2021/D/1gN

November 6, 2020

To,

The Director  
Techno India NJR Institute of Technology,  
Kaladwas, Udaipur

Sub. : Energy Audit .

Dear Sir,

We are enclosing herewith details of energy audit carried your at your college.

Though we are not certified energy auditor however based on our experience of last 35 years we have prepared the report based on information at site provided to us by your organization.

Kindly acknowledge the receipt

Thanking you,

For Sonaa Engineers Pvt. Ltd.

A.K. Shah

Director

End. : As above

---

B.O. : A-21, Prince Road Vidyut Nagar, JAIPUR-303021, Ph(014s) 235344D, 2353441, email : vikasdusad@gmail.com

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For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)

**the certificates from competent authorities for Environmental Audit**  
**Including Air, Water and Noice Test**

**Ambient Air Quality**



**OZONE TEST HOUSE  
LABORATORY**  
ISO 9001: 2015 Certified Environmental & Chemical Testing Laboratory

Report No.20210209004

Date: - 11.02.2021

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(AMBIENT AIR QUALITY)**

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- Ambient weather condition : Temp. 22°C, Humidity 48%
- Method of sampling : IS:5182 (Part2, Part6, Part23) & Instrument manual
- Total Sampling Time : 1390 min.
- Average Flow Rate : 1.165 M<sup>3</sup>/Min.
- Sample collection by : Ozone Test House

**TEST RESULTS**

S. No.	Parameter	Test Method	Unit	Result	CPCB (Norms)
1	PM 10	IS:5182 (Part 23)2006 Reaff 2012	µg/M <sup>3</sup>	73.65	100
2.	PM 2.5	IS:5182 (Part 24)	µg/M <sup>3</sup>	50.73	60
2	SO <sub>2</sub>	IS:5182 (Part 2)-2001 Reaff 2006	µg/M <sup>3</sup>	11.20	80
3	NO <sub>2</sub>	IS:5182 (Part 6)-2006	µg/M <sup>3</sup>	16.52	80
4	CO	By CO meter	mg/M <sup>3</sup>	0.46	04

Authorized Signatory

(Dr. Dinesh Kumar Kumawat)

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www.ozonetesthouse.com

Registered Address: 18- Meeranagar, Dhikli Road, Pratapnagar, Udaipur - 313001 (Rajasthan)  
E-mail: ozonetesthouse@gmail.com, Mob.: +917976684545, +919929519805

For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)

# Ambient Noise Report



## OZONE TEST HOUSE LABORATORY

ISO 9001: 2015 Certified Environmental & Chemical Testing Laboratory

Report No.20210209005

Date: - 11.02.2021

### TEST CERTIFICATE (AMBIENT NOISE)

1. Name of customer : **Techno NJR Institute of Technology**  
Plot-SPL-T, Bhamashah (RIICO) Industrial Area,  
Kaladwas, Udaipur 313003 (Rajasthan) India
2. Name of Location : College Campus
3. Date & Time of monitoring : 08.02.2021 -11:00 AM
4. Ambient weather condition : Temp. 22°C, Humidity 48%
5. Method of sampling : IS:9989- 1981 Reaff. 2014
6. Sample collection by : Ozone Test House

### NOISE MONITORING RESULTS

S.No.	Parameter	Unit	Result	
			Minimum	Maximum
1.	Main Gate	dB (A)	55.2	62.5
2.	College Library	dB (A)	44.3	49.8
3.	College Classroom	dB (A)	44.6	48.2

Authorized Signatory

(Dr. Dinesh Kumar Kumawat)

1. The test results listed refers only to the tested samples and applicable parameters. Endorsement of product is neither inferred nor implied.
2. Sample description is not verified in all cases and is given "As Described" by customers. Sample not drawn by us and analysis conducted "As received basis" unless specified otherwise.
3. Sample disposed after suitable retaining period.
  - a. Perishable items- immediately after reporting.
  - b. Water sample- after one week of reporting.
  - c. Non-perishable item- after four weeks of reporting.
4. Any complaint about this report should be communicated in writing with in 7 days of issue of this report.
5. This report is not to be reproduced wholly or in part and can not be used as evidence in a court of Law and shall not be used in advertising media without permission of CEO in writing.
6. All disputes are subject to Udaipur jurisdiction.
7. Declaration: The Results represent only the samples received by the Laboratory.

----- END OF THE REPORT -----

www.ozonetesthouse.com

Registered Address: 18- Meeranagar, Dhikli Road, Pratapnagar, Udaipur - 313001 (Rajasthan)

E-mail: ozonetesthouse@gmail.com, Mob.: +917917669445, +919929519805

For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)

# Water Quality Report



## RAHUL ENGINEERS LABORATORY

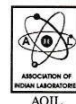
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ISO 9001:2015 Certified & ISO/IEC 17025:2005 Accredited Laboratory  
By NABL (Quality Council of India)

MSME-UAN-RJ 33E 0009668  
Udyog Adhar No. - RJ33E0009668  
GSTIN - 08AEVPP3102K1Z5  
PAN - AEVPP 3102 K



NABL Cert. No. TC-7954



AOIL

FACILITIES : Testing of Cement, Aggregate, Bricks, Concrete, TMT Steel Bar, Paver Block, Bitumen, Bituminous Mix, Soil, Sand, Rock, Water, Ores & Minerals, Quartz, Feldspar, Soapstone, Diatomaceous / Siliceous Earth, Lime Stone, Dolomite, China Clay, Iron Ore & Bauxite

5-A, Chitrakut Nagar, Bhuwana By-pass Road, Udaipur (Raj.) PIN 313 001, INDIA, Tel. : +91-294-2440317  
Cell : +91 6350324167, +91 8107343935, E-mail : rahul.labudr@gmail.com, Website : www.rahulengineers.com

Report No: - REL-Chem./201384-1

Format No.-REL/7.8/Chem./TR/F-2

ULR No-TC795421000000241F

Date: - 09.02.2021

### TEST REPORT

(Water)

1	Name of Customer	:	<b>Techno India NJR Institute of Technology, Billiya, Kaladwas, Udaipur (Raj.)</b>
2	Customer Contact No.	:	8696932800, 8696932731, (lokesh.malviya@technonjr.org)
3	Customer Reference No.	:	Service Request, Date:- 05.02.21
4	Type of Sample	:	Water
5	Sample Identification	:	.....
6	Date & Mode of Receipt of Sample	:	05.02.21, Sample submitted by customer.
7	REL Job No.	:	REL-201384-1
8	Name of Work	:	Testing of Water
9	Location	:	R.O. Water
10	Date of Sampling	:	.....
11	Date of Testing	:	06.02.21 to 08.02.21

#### Test Results:-

S. No	Parameters	Results	Specification for Drinking Water as per IS:10500: 2012		Test Method reference of IS: 3025
			Requirement (Acceptable Limit) (max.)	Permissible Limit in the Absence of Alternate Source (max.)	
1	pH at 25°C	7.6	6.5 to 8.5	No relaxation	Part-11
2	TDS (mg/l)	486.0	500	2000	Part-16
3	Chlorides as Cl (mg/l)	64.0	250	1000	Part-32
4	Salinity by Calculation (gms/kg)	0.1455	.....	.....	APHA AWWA WPCF (16 <sup>th</sup> Edition)
5	Conductivity (MicroMhos/cm)	872.0	.....	.....	Part-14

**Remarks:** - 1. The parameters in Bold are not in Acceptable Limit but within Permissible Limit in the absence of alternate source.  
2. The parameters in Bold with \* are not in Permissible Limit.

Tested By:

*(S.C. Parikh)*  
(S.C. Parikh)

Tech. Manager (Chem.)

Issued By:  
*(M.P. Jain)*  
(M.P. Jain)  
Gen. Manager

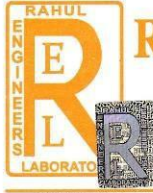
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For Techno India NJR Institute of Technology  
*पंकज पोखवाल*  
Dr. Pankaj Kumar Porwal  
(Principal)



# RAHUL ENGINEERS LABORATORY

(A Govt. of Rajasthan Regd. MSME Unit)

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Udhog Adhar No. - RJ33E0009668  
GSTIN - 08AEVPP3102K125  
PAN - AEVPP 3102 K



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Cell : +91 6350324167, +91 8107343935, E-mail : lab@rahulengineers.com, Website : www.rahulengineers.com

Format No.-REL/7.8/Chem./TR/F-2

Date: - 09.02.2021

Report No: - REL-Chem. /201384-1/NA

## TEST REPORT

(Water)

1	Name of Customer	:	<b>Techno India NJR Institute of Technology, Billiya, Kaladwas, Udaipur (Raj.)</b>
2	Customer Contact No.	:	8696932800, 8696932731 , (lokesh.malviya@technonjr.org)
3	Customer Reference No.	:	Service Request, Date:- 05.02.21
4	Type of Sample	:	Water
5	Sample Identification	:	.....
6	Date & Mode of Receipt of Sample	:	05.02.21, Sample submitted by customer.
7	REL Job No.	:	REL-201384-1
8	Name of Work	:	Testing of Water
9	Location	:	R.O. Water
10	Date of Sampling	:	.....
11	Date of Testing	:	06.02.21 to 08.02.21

### Test Results:-

S. No	Parameters	Results	Specification for Drinking Water as per IS:10500: 2012		Test Method reference of IS: 3025
			Requirement (Acceptable Limit) (max.)	Permissible Limit in the Absence of Alternate Source (max.)	
1	Most Probable no. of Coli form/100 ml of water	Zero	Shall not be detectable in any 100ml sample		IS 1622:1981
2	Sodium as Na (mg/l)	40.0	.....	.....	Part-45
3	Potassium as K (mg/l)	1.4	.....	.....	

**Remarks:** - 1. The parameters in Bold are not in Acceptable Limit but within Permissible Limit in the absence of alternate source.  
2. The parameters in Bold with \* are not in Permissible Limit.  
3. This report is in continuation to our report no. REL-Chem. /201384-1, Date: - 09.02.2021.

Tested By:

(S.C. Parikh)

Tech. Manager (Chem.)



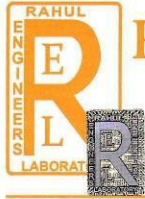
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For Techno India NJR Institute of Technology  
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Report No: - REL-Chem./201384-2

Format No.-REL/7.8/Chem./TR/F-2

ULR No-TC795421000000242F

Date: - 09.02.2021

## TEST REPORT

(Water)

1	Name of Customer	:	<b>Techno India NJR Institute of Technology, Billiya, Kaladwas, Udaipur (Raj.)</b>
2	Customer Contact No.	:	8696932800, 8696932731, (lokesh.malviya@technonjr.org)
3	Customer Reference No.	:	Service Request, Date:- 05.02.21
4	Type of Sample	:	Water
5	Sample Identification	:	.....
6	Date & Mode of Receipt of Sample	:	05.02.21, Sample submitted by customer.
7	REL Job No.	:	REL-201384-2
8	Name of Work	:	Testing of Water
9	Location	:	Bore Well Water
10	Date of Sampling	:	.....
11	Date of Testing	:	06.02.21 to 08.02.21

### Test Results:-

S. No	Parameters	Results	Specification for Drinking Water as per IS:10500: 2012		Test Method reference of IS: 3025
			Requirement (Acceptable Limit) (max.)	Permissible Limit in the Absence of Alternate Source (max.)	
1	pH at 25°C	7.3	6.5 to 8.5	No relaxation	Part-11
2	TDS (mg/l)	424.0	500	2000	Part-16
3	Chlorides as Cl (mg/l)	66.0	250	1000	Part-32
4	Salinity by Calculation (gms/kg)	0.1491	.....	.....	APHA AWWA WPCF (16 <sup>th</sup> Edition)
5	Conductivity (MicroMhos/cm)	923.0	.....	.....	Part-14

**Remarks:** - 1. The parameters in Bold are not in Acceptable Limit but within Permissible Limit in the absence of alternate source.  
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Tested By:

(S.C. Parikh)

Tech. Manager (Chem.)

Issued By:  
(N.P. Jari)  
Gen. Manager

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For Techno India NJR Institute of Technology  
  
Dr. Pankaj Kumar Porwal  
(Principal)

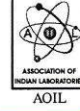


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PAN - AEVPP 3102 K



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Format No.-REL/7.8/Chem./TR/F-2

Date: - 09.02.2021

Report No: - REL-Chem. /201384-2/NA

## TEST REPORT

(Water)

1	Name of Customer	:	<b>Techno India NJR Institute of Technology, Billiya, Kaladwas, Udaipur (Raj.)</b>
2	Customer Contact No.	:	8696932800, 8696932731, (lokesh.malviya@technonjr.org)
3	Customer Reference No.	:	Service Request, Date:- 05.02.21
4	Type of Sample	:	Water
5	Sample Identification	:	.....
6	Date & Mode of Receipt of Sample	:	05.02.21, Sample submitted by customer.
7	REL Job No.	:	REL-201384-2
8	Name of Work	:	Testing of Water
9	Location	:	Bore Well Water
10	Date of Sampling	:	.....
11	Date of Testing	:	06.02.21 to 08.02.21

### Test Results:-

S. No	Parameters	Results	Specification for Drinking Water as per IS:10500: 2012		Test Method reference of IS: 3025
			Requirement (Acceptable Limit) (max.)	Permissible Limit in the Absence of Alternate Source (max.)	
1	Most Probable no. of Coli form/100 ml of water	Zero	Shall not be detectable in any 100ml sample		IS 1622:1981
2	Sodium as Na (mg/l)	40.0	.....	.....	Part-45
3	Potassium as K (mg/l)	1.6	.....	.....	

**Remarks:** - 1. The parameters in Bold are not in Acceptable Limit but within Permissible Limit in the absence of alternate source.  
2. The parameters in Bold with \* are not in Permissible Limit.  
3. This report is in continuation to our report no. REL-Chem. /201384-2 Date: - 09.02.2021.

Tested By:

*S.C. Parikh*  
(S.C. Parikh)

Tech. Manager (Chem.)



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End of Report

For Techno India NJR Institute of Technology

*पंकज पोखवाल*

Dr. Pankaj Kumar Porwal  
(Principal)

# Green Audit Report

For Techno India NJR Institute of Technology

पंकज पोरवाल

Dr. Pankaj Kumar Porwal  
(Principal)

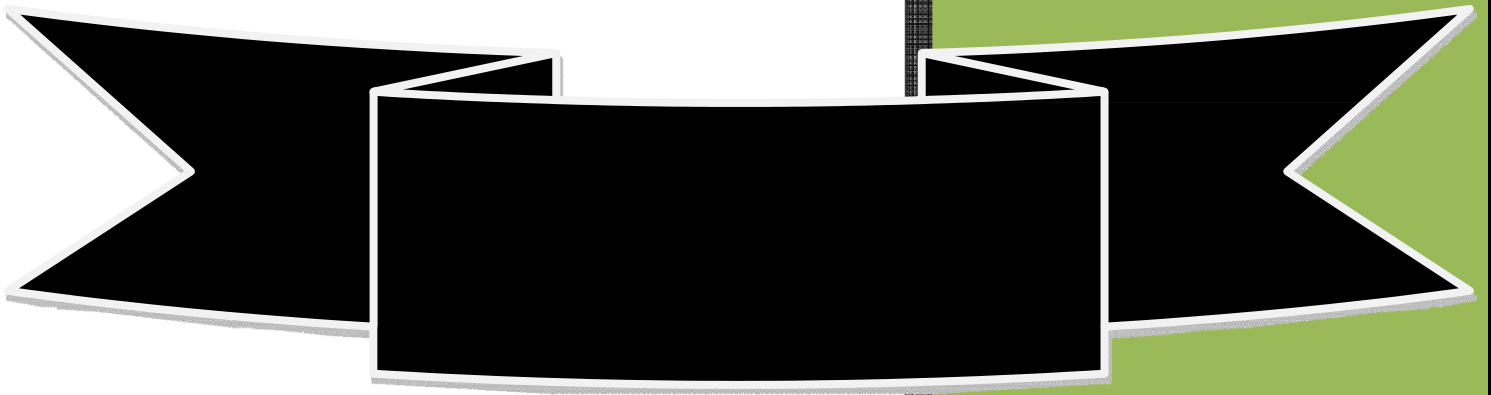




TECHNO INDIA NJR  
INSTITUTE OF TECHNOLOGY

2021

## Green Audit Report



For Techno India NJR Institute of Technology

पंकज पोरवाल

Dr. Pankaj Kumar Porwal  
(Principal)

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## Green Audit Report

### Techno India NJR Institute of Technology, Udaipur

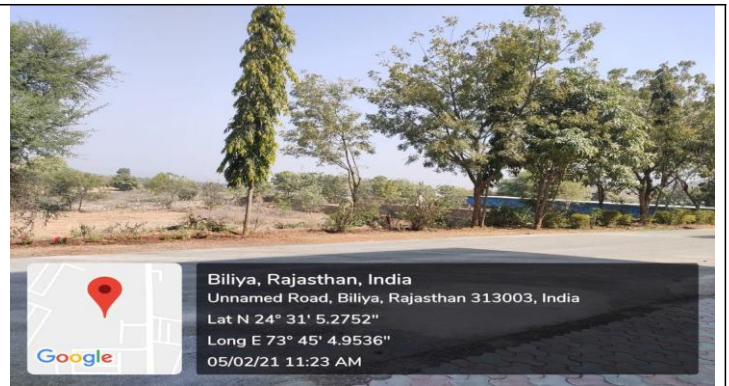
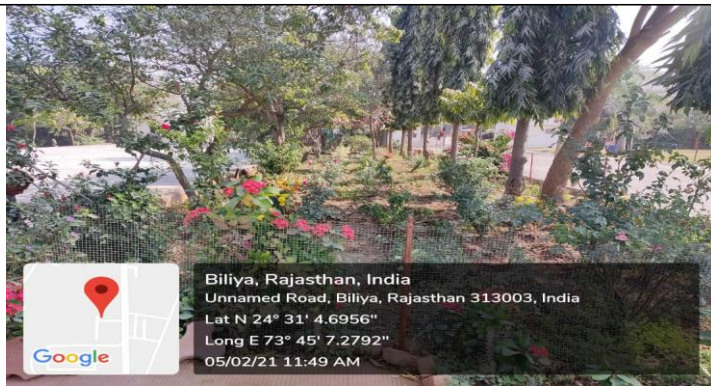
#### 1 Introduction:

##### 1.1 Background:

NJR Foundation established Techno India NJR Institute of Technology in the year 2008. NJR Foundation, a registered trust, was established in the year 2003 in memory of Shri Navdeep Ranawat and Shri Jitendra Ranawat by Mrs. Meera Ranawat and Mr. Raj Shekhar Vyas, an alumnus of BITS, Pilani having more than 25 years of experience with Tata group and as Techno entrepreneur. The campus is spread on a 10-acre land and the site is in Biliya village, which is 13 km from Udaipur City Railway Station, Central area of Udaipur Rajasthan. Techno India NJR is a Private, Self-financing Institution approved by AICTE and affiliated with Rajasthan Technical University (RTU), Kota. The institute offers seven undergraduate professional programs (Bachelor of Technology - B.Tech) of 4 years duration. The motto of the institute is to understand the needs of industry and transform students into well-trained fully employable engineering graduates with rigorous academic knowledge and industry-required skill sets. To understand the needs of industry and transform students into well-trained fully employable engineering graduates with rigorous academic knowledge and industry-required skill sets. The claim has been vindicated by a large number of alumni glittering in the national and international arena.

##### 1.2 Green Audit:

The green audit is the method of assessing the environmental impact of an organization, process, project, product, etc. Green Audit can be defined as a basic management tool comprising a systematic, documented, periodic and objective evaluation of how well environmental organizations, management systems, and equipment are performing. The audit aims to facilitate management control on environmental practices and to enable the organization to assess compliance with its policies including meeting the regulatory requirement.



For Techno India NJR Institute of Technology  
पंकज पोखवाल  
Dr. Pankaj Kumar Porwal  
(Principal)



Figure 1: Geographical pictures of Techno India NJR Campus

### 1.3 Methodology

The study covered the following area to summarize the present status of environmental management on the campus:

#### *i. Pre-audit planning*

- ❖ Preliminary literature review of concepts and methodologies related to the green audit.
- ❖ Discussion with the management staff on various systems installed on the campus.
- ❖ Awareness creation and interaction with the staff and students on the concept of the green audit.
- ❖ Walkthrough the entire campus to understand the nature of water use, energy use, air quality system, sound quality, and waste management systems in the campus.

#### *ii. Data collection*

- ❖ Development of questionnaire format to identify all water/air/sound/energy using fixtures/ equipment and examine water or energy use patterns for individual buildings on the campus.
- ❖ Collection of secondary data from the compilation of electricity bills, collecting records of pumps, generators, water quality analysis reports, civil and electrical drawings, etc.
- ❖ Semi-structured interview with a maintenance manager, technicians, plumber, and housekeeping staff on the current situation and the past trends in water consumption, electricity consumption, waste management, waste generation, etc.

#### *iii. Data Processing and analysis*

The existing trends and patterns in water usage, energy usage, and waste generation and management are analyzed in this step from the data collected from the previous step.

#### *iv. Audit Recommendations and reporting*

Based on the understanding from the green audit, recommendations are given to improve the existing environmental performance of the campus and are documented in a report form.

**2. Water Quality Assessment & Management:**

Water quality analysis was conducted by Rahul Engineers Laboratory on the following parameters:

*Table 1: Test Results of RO Water*

SN	Parameters	Results	Specification for Drinking Water as per IS:10500:2012		Test Method reference of IS:3025
			Requirement (Acceptable Limit) (max.)	Permissible Limit in the Absence of Alternate Source (max.)	
1	pH at 25°C	7.6	6.5 to 8.5	No relaxation	Part-11
2	TDS (mg/l)	486.0	500	2000	Part-16
3	Chlorides as Cl (mg/l)	64.0	250	1000	Part-32
4	Salinity by Calculation (gms/kg)	0.1455	--	--	APHA AWWA WPCF (16th Edition)
5	Conductivity (MicroMhos/cm)	872.0	--	--	Part-14
6	Most Probable no. of Coli form/100 ml of water	Zero	Shall not be detectable in any 100ml sample		IS 1622:1981
7	Sodium as Na (mg/l)	40.0	--	--	Part-45
8	Potassium as K (mg/l)	1.4	--	--	

*Table 2: Test Results of Bore Well Water*

SN	Parameters	Results	Specification for Drinking Water as per IS:10500:2012		Test Method reference of IS:3025
			Requirement (Acceptable Limit) (max.)	Permissible Limit in the Absence of Alternate Source (max.)	
1	pH at 25°C	7.3	6.5 to 8.5	No relaxation	Part-11
2	TDS (mg/l)	424.0	500	2000	Part-16
3	Chlorides as Cl (mg/l)	66.0	250	1000	Part-32
4	Salinity by Calculation (gms/kg)	0.1491	--	--	APHA AWWA WPCF (16th Edition)
5	Conductivity (MicroMhos/cm)	923.0	--	--	Part-14
6	Most Probable no. of Coli form/100 ml of water	Zero	Shall not be detectable in any 100ml sample		IS 1622:1981
7	Sodium as Na (mg/l)	40.0	--	--	Part-45
8	Potassium as K (mg/l)	1.6	--	--	

**Green Audit Report**  
**Techno India NJR Institute of Technology, Udaipur**

**Ground Floor**

Wing-A			Wing-B			Wing-C			Wing-D		
Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps
Pantry	A-103	5	Common Toilet	B-108	12	Chemistry Lab	C-106	17	Toilet-Gents	D-109	8
Toilet-Gents	A-110	6	Drinking water		2	Toilet-Gents	C-107	6	Toilet-Ladies	D-109	8
Toilet-Ladies	A-110	6				Toilet-Ladies	C-107	6			
<b>Floor Total</b>						<b>17+14+29+16= 76</b>					

**First Floor**

Wing-A			Wing-B			Wing-C			Wing-D		
Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps
Guest Room-1	A-209	4	Toilet-Gents	B-208	8	Toilet-Ladies	C-208	12	Toilet-Gents	D-210	8
Guest Room-2	A-210	4	Drinking water		2						
Guest Room-3	A-202	3									
<b>Floor Total</b>						<b>11+10+12+8=41</b>					

**Second Floor**

Wing-A			Wing-B			Wing-C			Wing-D		
Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps
Girls Hostel	A-305	17+3	Drinking water		2						
<b>Floor Total</b>						<b>22</b>					

**Mechanical Workshop**

**Incubation Lab**

Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps	Section	Room No	No. of Taps
Workshop	WS01	2	IC Lab	IC-103	4	i-3 Lab	IC-201	4			
<b>Floor Total</b>						<b>2+4+4=10</b>					

Section	No. of Taps
Canteen	8
Cafeteria	5
Lawn-1	6
Lawn-2	6
Main Gate	3
Boys Hostel	46
	10 (Showers)

For Techno India NJR Institute of Technology  
 पंकज पोखवाल  
 Dr. Pankaj Kumar Porwal  
 (Principal)

## 2.2 Water Storage Profile:

Table 3: Number of water storage tanks on the campus

		No of Tanks	The capacity of the Tanks	Total Capacity (Litre)	Remark
Main Building	Block-A	2	1000 Litre	2000	
	Block-B	5	1000 Litre	5000	
	Block-C	2	1000 Litre	2000	
	RO Water	2	3000 Litre	6000	Raw Water
		1	3000 Litre	3000	RO Water Storage
Main Gate		2	1000 Litre	2000	Raw Water
		1	1000 Litre	1000	RO Water Storage
Boys Hostel		2	2000 Litre	4000	Raw Water
		1	1000 Litre	1000	RO Water Storage
IC Lab		1	1000 Litre	1000	RO Water Storage
Service Station		1	1000 Litre	1000	
<b>Total</b>				28,000	

## 2.3 Bore Well Storage Profile:

Table 4: Bore well water storage tank details

SN	Dimension (foot)	Volume (cubic foot)	Total Capacity (Litre)
1	70x16x8	8,960	2,53,718.9

For Techno India NJR Institute of Technology  
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## Green Audit Report

### Techno India NJR Institute of Technology, Udaipur

#### 3. Air Quality Assessment & Management:

The ambient air quality test was conducted by Ozone Test House Laboratory, Udaipur. The method of sampling was adopted according to IS: 5182 (Part2, Part6, Part23) with 1390 minutes of sampling time. The test results are as follows:

Table 5: Number of water storage tanks on the campus

SN	Parameter	Test Method	Unit	Result	CPCB (Norms)
1	PM 10	IS:5182 (Part 23)2006 Reaff 2012	$\mu\text{g}/\text{M}^3$	73.65	100
2	PM 2.5	IS:5182 (Part 24)	$\mu\text{g}/\text{M}^3$	50.73	60
3	SO <sub>2</sub>	IS:5182 (Part 2)-2001 Reaff 2006	$\mu\text{g}/\text{M}^3$	11.20	80
4	NO <sub>2</sub>	IS:5182 (Part 6)-2006	$\mu\text{g}/\text{M}^3$	16.52	80
5	CO	By CO meter	$\mu\text{g}/\text{M}^3$	0.46	04



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(Principal)



**4. Electricity Consumption & Management:***Table 6: Electricity consumption for recent 12 months*

Sr. No.	Month	Consumption Units (kWh)
1	Jan 2020	15216
2	Feb 2020	13724
3	Mar 2020	10301
4	May 2020	10301
5	June 2020	25620
6	July 2020	22869
7	Aug 2020	26345
8	Sep 2020	22848
9	Oct 2020	24450
10	Nov 2020	15342
11	Dec 2020	9539
12	Jan 2021	11537
<b>Total Power Consumption in Yearly</b>		<b>208092 kWh</b>
<b>Average Power Consumption in Monthly</b>		<b>17341 kWh</b>

Average power consumption in monthly is 17341 kWh (Units) is collected after deducting the Solar generation which approximately generation capacity in between 5000 to 6000 unit per month.

#### 4.1 Graphically Representation of Electricity Distribution:

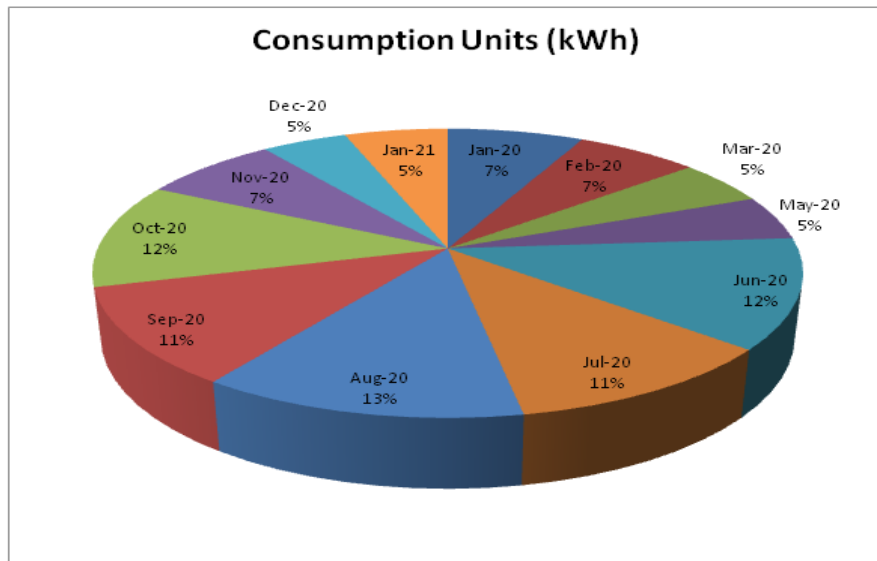


Figure 2: Electricity distribution

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### 5 Sound Pollution Monitoring:

The ambient noise quality test was conducted by Ozone Test House Laboratory, Udaipur. The method of sampling adopted according to IS: 9989- 1981 Reaff. 2014. The test results are as follows:

*Table 7: Noise Monitoring Results*

SN	Parameter	Unit	Result	
			Minimum	Maximum
1	Main entrance of the campus	dB (A)	55.2	62.5
2	Library	dB (A)	44.3	49.8
3	Classroom	dB (A)	44.6	48.2

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## Green Audit Report

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**6 Waste Management:** This indicator addresses waste production and disposal of different wastes like paper, food, plastic, glass, dust, etc. Furthermore, solid waste often includes wasted material resources that could otherwise be channeled into better service through recycling, repair, and reuse. Solid waste generation and management is a burning issue.

**6.1 Solid Waste Management:** The Campus has adopted the principles of the best practicable environmental option to deliver its waste management services. The Campus applies a “waste hierarchical approach” to reduce, reuse, recycle, and recover waste products in preference to waste disposal to landfill. Figure 3 shows a schematic diagram of solid waste management of the Campus.

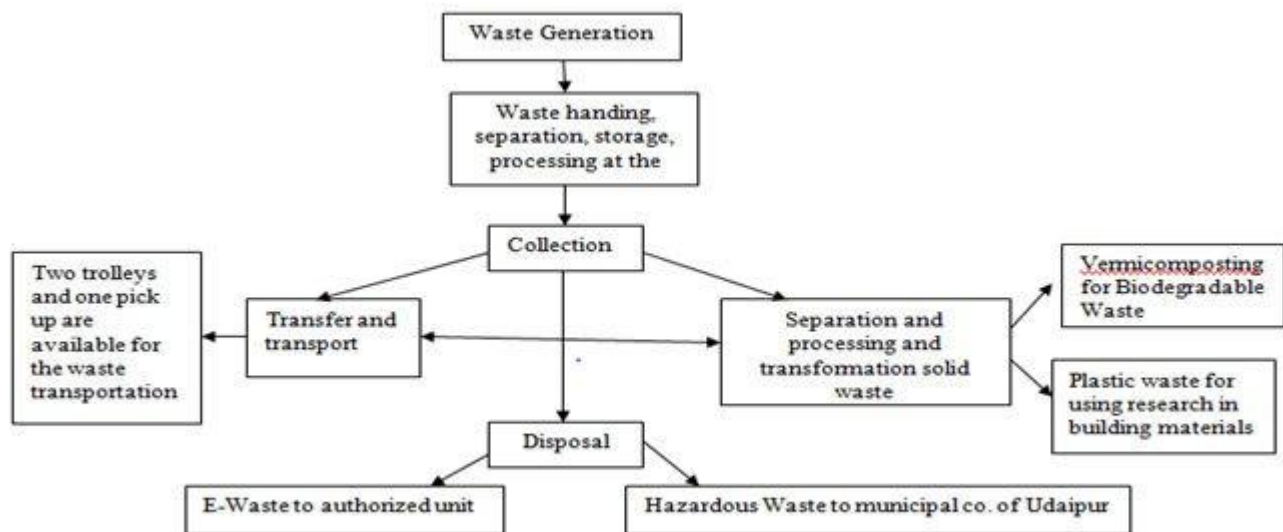


Figure 3: Interrelationships between the functional elements in Solid Waste Management in Campus

**6.2 Waste Segregation:** Source segregation via separate bins as per the waste. Following color code is used for different types of wastage.

- Green Bins: For biodegradable waste
- Blue Bins: For plastics waste
- Red Bins: Hazardous and Sanitary waste
- Black Bins: For E-Waste

Dimensions and 3d views of the collection and processing center on the college campus are shown in Figures 4 and 5.

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(Principal)

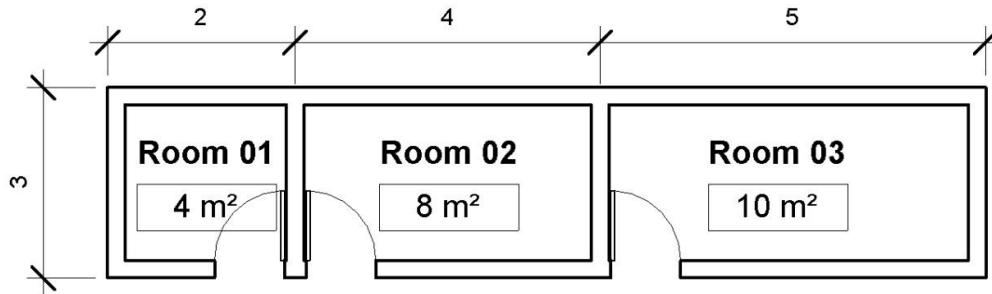


Figure 4: Area and Dimensions of Processing Center (Outer Dimensions in meter)

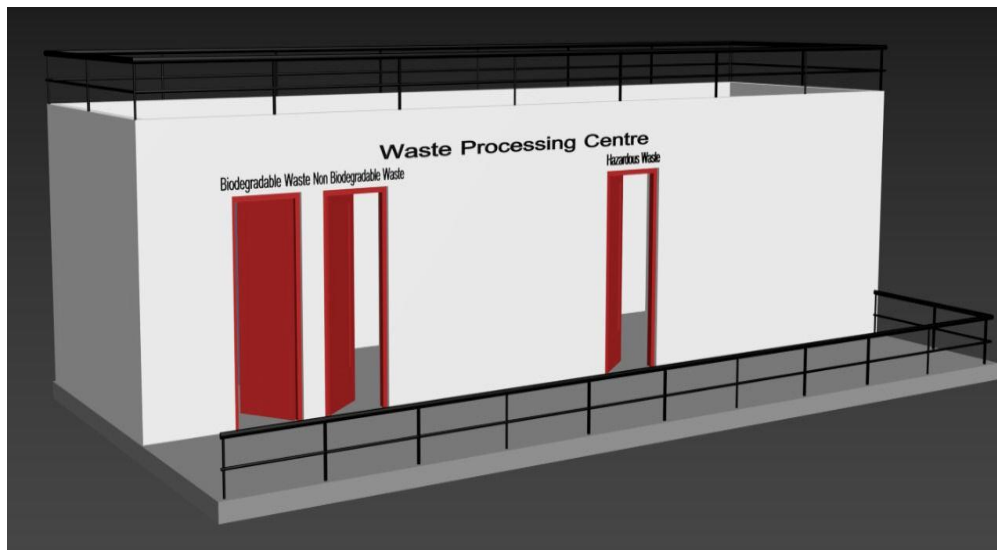


Figure 5: Processing Center for Waste at the Campus

**6.3 Resources for Waste management:** There are two sets of four colored bins of 120 liter capacity for each location on Campus. One collection center and one processing center are also located on Campus. The location of black colored dustbin is inside the Campus in a particular room. Three sets (60 Liter) of blue and green bins are kept in each wing of each floor. Red bins of 60-liter capacity are kept in each washroom of the Campus.

**6.4 Liquid Waste Management:** Wastewater management options and technologies can be functionally divided into two segments. Firstly, septic tanks are used for sewage wastewater. Secondly, wastewater from bathrooms is treated through coagulants for the separation of soap and other suspended particles, and this treated water is used for gardening.

**6.5 Biomedical and Radioactive Waste Management:** There is no biomedical and radioactive waste generated on the campus.

## Green Audit Report

### Techno India NJR Institute of Technology, Udaipur

**6.6 Hazardous Chemicals Waste Management:** There are separate red-colored bins and room (shown in figure 5) for sanitary and hazardous waste. These types of wastes are disposed of on Municipality landfill site outside the city.



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## 7. Summary of Findings & Recommendations:

### *Audit recommendations for potential water saving:*

Based on the information collected and observations, the following can be recommended to reduce water use and increase its efficiency

- ❖ Control quantity of water in Flush cistern in toilets: Currently the college is using flush cistern toilets. Buckets are also used to collect water. It is observed that there is no proper control over the quantity of water being used. Hence, it is suggested to regulate the quantity of water in flushing cisterns in all the toilets to regulate the consumption of water.
- ❖ Establish a water budget for the building and monitor performance criteria in due course of time.
- ❖ Install sensors to avoid overflow from overhead tanks.
- ❖ Awareness to the students and staff regarding the importance of conservation of water.
- ❖ Incentives for those who consume less water in the hostel.
- ❖ The wastewater must reuse for gardening and agriculture.
- ❖ Expand the present well recharging system to collect rainwater from all rooftops.

### *Audit recommendations for potential energy saving*

- ❖ All air-conditioned rooms can be provided with doors having an automatic closing mechanism and windows with tinted glass to reduce the load on the air conditioning system.
- ❖ Currently, most of the classrooms are having window curtains. Avoid using curtains to facilitate entry of sunlight and to avoid the use of tube lights and minimize the use of ceiling fans at high speed.
- ❖ It is recommended that tube lights may be replaced with CFL or LED light at the end of utility period of currently installed tube lights as it consumes much less energy compared to fluorescent lamps.
- ❖ Use air conditioners only during summer.
- ❖ Switch off the printers at the main outlet itself when not in use or in other words machine should not be kept in stand by and sleep mode which consumes power.
- ❖ Reduce wastage of water and thereby the power required to pump up the water can be cut down.
- ❖ Switch off the fridge at peak hours rather than working it for 24hrs daily.
- ❖ Make sure the chargers are unplugged after charging, continues charging even after full charge consume more energy.

### *Audit recommendations for waste reduction*

- ❖ Maximum reduction of burning waste materials is required by adopting recycling methods.
- ❖ The organic waste produced is currently sent to a vermicompost plant. As an add-on, biogas plants can be utilized to decompose organic waste. This will not only decompose the waste, but will also provide biogas that can be used as fuel for cooking purposes.
- ❖ The used water from laboratories is disposed of in proper method without making environmental pollution.

**Green Audit Report**

**Techno India NJR Institute of Technology, Udaipur**

- ❖ Hazardous and toxic waste generated from laboratories should be stored separately and handled as per the standard rules.



**Dr. Sangeeta Choudhary**  
M.E. (Environmental Engineering)  
Ph.D (Civil Engineering)

For Techno India NJR Institute of Technology

पंकज पौरवाल

Dr. Pankaj Kumar Porwal  
(Principal)



# Energy Audit Report

For Techno India NJR Institute of Technology

पंकज पौरवाल

Dr. Pankaj Kumar Porwal  
(Principal)

# Sonaa Engineers Pvt. Limited



REGD. & H.O. : 30B—311, Sh lbham, 11-A, Kumbha Marg, New Fafehprira, Udaipur — 313 C04 (Ftaj.)  
Mr:0294-z526102,241.5793Fax:2526302 Email:sonaaengGgmMl.com/sonaal inAyahoo.co.in

GST No. : 08AACCS8789H1ZO

SEPL/UDR/2020-2021/D/1gN

November6,2020

To,

The Director  
Techno India NJR Institute of Technology,  
Kaladwas, Udaipur

Sub. : Energy Audit .

Dear Sir,

We are enclosing herewith details of energy audit carried your at your college.

Though we are not certified energy auditor however based on our experience of last 35 years we have prepared the report based on information at site provided to us by your organization.

Kindly acknowledge the receipt

Thanking you,

For Sonaa Engineers Pvt. Ltd.

A.K. Shah

Director

Encl. : As above

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पंकज पोरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)


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## Co8ctio of texpeamataldatag

All required data is collected by Department of Electrical Engineering. In building, in every room, how much fans, tube lights, bulbs, computers, Instruments AC, etc will these. measured. According to survey following data is collected.

Department/Office	Fan	LED Tube light	A.C.	Fridge	Computer	Printer	Scanner	Xerox Machine	Projector	LED TV
Director Office	2	6	3	0	1	1	0	0	0	0
Principle'Office	1	9	2	0	0	1	0	0	0	0
ChemistryLab	11	16	0	0	0	0	0	0	0	0
Physics:Lab	3	6	0	0	1	0	0	0	0	0
ChairpersonRoom	1	2	1	0	0	0	0	0	0	0
AccountDept	4	2	1	0	3	1	1	3	0	0
ExamDept	4	5	0	0	2	1	1	1	0	0
Staff.Room	18	30	5	0	25	18	5	0	0	0
Library	8	16	0	0	3	1	1	1	0	0
Classrooms	102	216	0	0	7	0	0	0	8	0
Pantry	1	1	0	1	0	0	0	0	0	0
SeminarHall	8	16	5	0	1	1	0	0	1	0
Washroom	0	18	0	0	0	0	0	0	0	0
Passage	0	60	0	0	0	0	0	0	0	0
DeptLabs	158	256	20	0	424	0	0	0	8	2
13 LaS	11	21	4	1	11	3	1	0	1	2
Mechanical Workshop	20	30	0	0	1	0	0	0	0	0
Hostel	30	40	0	0	3	0	0	0	0	0
Canteen	15	16	0	3	0	0	0	0	0	0
MainEntrance	6	16	0	0	0	0	0	0	0	0
Gym	12	15	0	0	0	0	0	0	0	1
VisitingRoom	1	2	0	0	0	0	0	0	0	1
ParkingArea	6		0	0	1	0	0	0	0	1
TotalQuantity	425	813	40	5	483	26	9	5	18	7
Avg. Wattage rating of single appliance(W)	60 W	25 W	1.5 / 2.0 Ton	1100 W	180 W	100 W	100 W	300 W	220 W	80 W
Average number on at a time	204	510	20	4	220	20	6	4	14	5
Total Wattage on at a time(W)	12240	12750	34500	4400		2000	600	1200	3080	450

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 Dr. Pankaj Kumar Porwal  
 (Principal)

# Sonaa Engineers Pvt. Limited

**Borewell** motor details: 3-phase Induction motor of 5 HP, consumes approx. 8 units per day so monthly sound 240 units.

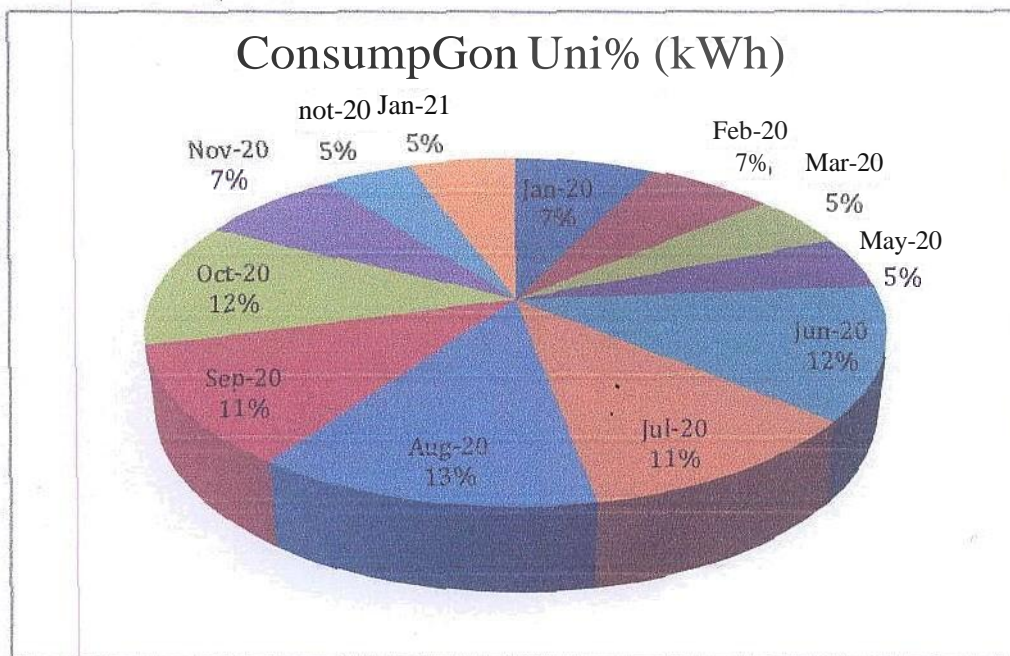
## Power Consumption of Electricity Board

Sr. No.	Month	Consumption Units (kWh)
1	Jan 2020	15216
2	Feb. 2020	13724
3	Mar 2020	10301
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5	June 2020	25620
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9	Oct 2020	24450
10	Nov 2020	15342
11	Dec 2020	9539
12	Jan 2021	1153.7
Total Power Consumption in Yearly		208091 kWh
Average Power Consumption in Monthly		17341 Wh

Average power consumption in monthly is 17341 kWh (Units) is collected after deducting the Solar generation which approximately generation capacity in between 5000 to 6000 Units per month.

## Graphically Representation of Electricity Distribution:

Electricity distribution from Jan 2020 to Jan 2021



Renewable, energy generation details:

For Techno India NJR Institute of Technology

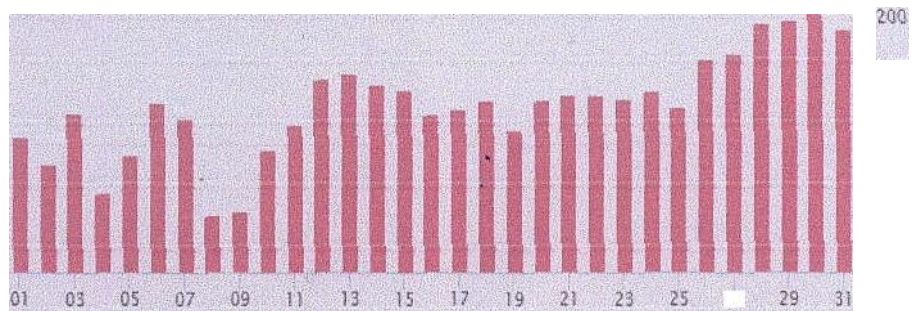
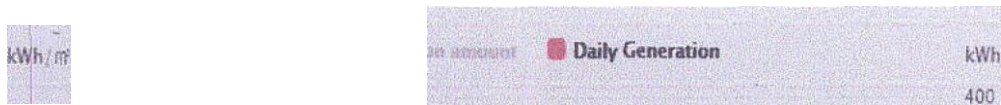
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(Principal)

# SonaaEngineers Pvt. Lirnilea

50 kW capacity Solar on grid power plant. Yotal per day generation is around 200 Units (kWh)



50 kW on grid Solar plant



Jan 2021 month per day Solar generation graph

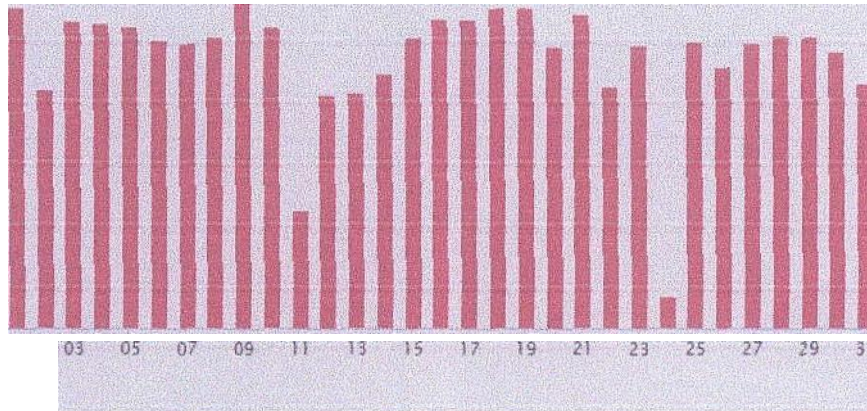
For Techno India NJR Institute of Technology  
पंकज कुमार पोर्वा  
Dr. Pankaj Kumar Porwa  
(Principal)

# g P t t

kWh/m

Daily Generation

kWh  
250



Dec 2020 month per day Solar generation graph

## Plant Profile

Name: Techno NJR  
Location: Plot-SPL-T, Bhameshah (RIICO) Industrial Area, Kaladwas Udaipur 311003 (Rajasthan) India

Residential Rooftop  
All on Grid

Price: 8.85 INR/kWh

BT: 1000 INR

180

0 INR/kWh 0Year

0 INR/kWh 0Year

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# Sonaa Engineers Pvt. Limited



Solar Water Heater

## conclusion:

In conclusion, data generated in energy audit are useful for to understand the energy distribution and utilization of college. The college needs maximum 17341 kWh (Units) per month. On grid Solar plant generates maximum 20aunits per day so monthly generation is around 5000 to 6000 kWh (Units).

## Recommendation:

- 1) Use separate sub energy meter/connection for different locations like hostel, canteen, Mechanical workshop and offices.
- 2) Replace all non LED Tube lights with LED lights and bulbs, to save more power.
- 3) Replace CRT monitor using LED orLCD monitor.

## Result and Discussion:

As far concerning the energy audit, electricity audit is main concern regarding educational institution. We have collected data by considering the tube light, fan, computer, printer, A.C. and instruments. Ihe total maximum require power is **110B20 W**. The average energy consumption by all devices is 1741 kWh per month and On grid solar renewable source generate around 5000 to 6000 Units/Month.

For Techno India NJR Institute of Technology

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Dr. Pankaj Kumar Porwa  
(Principal)

# Environmental Audit Report

For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)



# Environmental Audit Report



## Techno India NJR Institute of Technology, Udaipur (Rajasthan)



For Techno India NJR Institute of Technology  
पंकज पोखवाल  
Dr. Pankaj Kumar Porwal  
(Principal)

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2. GREENING
3. ENERGY CONSERVATION
4. WATER CONSERVATION
5. CLEAN AIR
6. ANIMAL WELFARE
7. ENVIRONMENTAL LEGISLATIVE

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(Principal)

## ACKNOWLEDGEMENT

Techno India Environmental Audit Team thanks the management of Techno India NJR Institute of Technology, Udaipur for assigning this important work of Environmental Audit. We appreciate the co-operation with our team for the completion of the study.

Our special thanks are due to:

- Director Mr. R.S. Vyas and Chair Person Mrs. Meera Ranawat and Principal Dr. Pankaj Kumar Porwal for providing all data for this audit work.
- Teaching and Supporting staff of the college.

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(Principal)

## INTRODUCTION: OVERVIEW OF INSTITUTE

Techno India NJR Institute of Technology is located on a beautiful campus of 10 acres in Udaipur. The college has also adopted the Green Campus System for environmental conservation and sustainability. Following sustainable techniques have been adopted by this Institute:

1. Vermicomposting for biodegradable waste
2. Plastic recycling through a start-up project of the Institute
3. Use of treated wastewater from bathrooms in gardening
4. Wastewater from toilets is being disposed of utilizing septic tanks
5. Separate sections in Campus for e-waste and hazardous waste collection for authorized vendors are available for waste recycling.
6. Rainwater harvesting system
7. Solar panel for energy conservation

The whole Campus is divided into the following blocks.

S.No.	Block Name	Ground Coverage (Sq. M.)
1	Academic Block	3377.01
2	Workshop	606.3
3	Hostel Building	597.9064
4	I 3 lab	275.394
5	Road	2668.166
6	Area Covered by Tiles	1613.306
	<b>Total Area</b>	<b>9138.824 Sq. M</b>

This Institute has to ensure that all the campus wastes are disposed of responsibly by using proper waste segregation mechanism at the source and, if possible, converting it into a value-added environmentally friendly product. As per the guidelines provided by the Indian Ministry of Urban Development ((MoUD) in the form policies of SWM rules 2016, all gated societies and campuses have been advised to develop the treatment and segregation of waste within their premise.

The Campus has adopted the principles of the “best practicable environmental option” to deliver its waste management services. The Campus applies a ‘waste hierarchical approach’ to reduce, reuse, recycle, and recover waste products in preference to waste disposal to landfill.

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## OBJECTIVES

The board aims of the eco-auditing system would be

- Environmental education through a systematic environmental approach
- Improving environmental standards
- Benchmarking for environmental protection initiative
- Reduction in resource use
- Financial saving through a reduction in resource use
- Curriculum enrichment through practical experience
- Development of ownership, personal and social responsibility for the university campus and its environment
- Developing an environmental ethic and value system in young people

## AUDIT PARTICIPANTS

On behalf of the Institute:

Name	Education
Dr. Sangeeta Choudhary	M.E in Environmental Engineering and Ph.D. In Civil Engineering
Mr. Lokesh Malviya	Ph.D. Pursuing in Supply Chain, M.E in Supply Chain Management
Mr. Rajkumar Soni	M.Tech in Energy and Power System
Mr. Jitendra Choubisa	M.Tech Pursuing in Structural Engineering, B.Tech in Civil Engg.

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## ENVIRONMENTAL AUDIT QUESTIONNAIRE

The areas of eco/environmental/green auditing to be followed/practiced by participating institutions:

1. Waste Minimization and Recycling
2. Greening
3. Energy Conservation
4. Water Conservation
5. Clean Air
6. Animal Welfare
7. Environmental Legislative

**Does your Environmental Audit had been conducted earlier?**

No, this is for the first time that the institute has taken a systematic way of monitoring the environmental aspects of the campus for better management.

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What is the total permanent population of the institute?	Male	Female	Total
Students	423	167	590
Teachers	39	10	49
Non-teaching Staff	4	1	5
Supporting Staff	4	2	6
Sub total	470	180	650
Approximate Number of Visitors (Per Day)	20		
What is the total number of working days of your campus in a year?	270		

Where is the campus located?	
	The campus is located at Bhamashah (RIICO) Industrial Area, Kaladwas, Udaipur

Which of the following are available in your institute?			
a	Garden area	Available	
b	Playground	Available	
c	Kitchen	Available	
d	Toilets	Available	
e	Garbage Or Waste Store Yard	Available	
f	Laboratory	Available	
g	Canteen	Available	
h	Hostel Facility (numbers)	Available	
i	Guest House	Available	

Which of the following are found near your institute?			
Municipal dump yard	Not in the area of the institute		
Garbage heap	No		
Public convenience	Yes		
Sewer line	Yes		
Stagnant water	No		
Open drainage	Yes		
Industry – (Mention the type)	Yes, the Campus is in Industrial Area, So various types of Industries are there, the nearest one is the Soapstone manufacturing industry.		
Bus / Railway station	About 11 Km from campus		
Public halls	About 9-11 Km from campus		

For Techno India NJR Institute of Technology  
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 Dr. Pankaj Kumar Porwal  
 (Principal)

1. WASTE MINIMIZATION AND RECYCLING					
1	Does your institute generate any waste? If so, what are they?	Yes. Solid, paper, plastic toiletry waste, etc.			
2	What is the approximate amount of waste generated per day? (in Kilograms/month) (approx.)	Bio-Degradable	Non-Biodegradable	Hazardous	Others
		~15 kg	~ 1kg	1 kg	<1 kg
3	How is the waste generated in the institute managed? By 1 Composting 2 Recycling 3 Reusing 4 Others (specify)	Institute has planned a Vermi-Compost at Backyard of college. Where Solid waste of the institute will be dumped. For Reusing – Civil Engineering Alumni are working on a project named <b>Wricks</b> , in which they are using plastic to make sustainable bricks.			
4	Do you use recycled paper in the institute?	Yes			
5	Do you use reused paper in the institute?	Yes			
6	How would you spread the message of recycling to others in the community? Have you taken any initiatives? If yes, please specify.	Yes, students from the Civil engineering department conducted various research works in the city. One of them was at the city's main vegetable market and they studied waste generation and proposed a detailed case report to reduce the solid waste generation.			
7	Can you achieve zero garbage in your institute? If yes, how?	Yes, we can, With proper handling of materials and their processing we can achieve zero garbage.			

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 Dr. Pankaj Kumar Porwal  
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<b>2</b>	<b>GREENING THE CAMPUS</b>		
<b>8</b>	Is there a garden in your institute?		Yes, About 2.6 Acre
<b>9</b>	Do students spend time in the garden?		Yes
<b>10</b>	Total number of Plants in Campus	<b>Plant type</b>	<b>Approx. Number</b>
		Trees	390
		Shrubs	160
		Grass Cover	2 Acre
<b>11</b>	Suggest plants for your campus. (Trees, vegetables, herbs, etc.)		Ashoka, Mulberry, Bauhinia purpurea (Kachnar), Tamarind, Neem.
<b>12</b>	Is the College campus have any Horticulture Department		Yes
	Number of Staff working in Horticulture Department		2
<b>13</b>	The number of Tree Plantation Drives organized by the College per annum. (If Any)		02 Drives till date
<b>14</b>	Number of Trees Planted in Last FY.		50 200-250 Ornamental Plants
	Survival Rate		90 %
<b>15</b>	Plant Distribution Program for Students and Community		<ol style="list-style-type: none"> <li>1. The Green Kaladwas program was organized in 2015-16 to plant trees all over the industrial area.</li> <li>2. In 2016, the Tree plantation program by students and faculties was carried out in Campus garden with a quantity of 500.</li> <li>3. NCC Cadets organized a tree plantation drive in 2019-20.</li> </ol>
<b>16</b>	Plant Ownership Program		Yes

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 पंकज पोखवाल  
 Dr. Pankaj Kumar Porwal  
 (Principal)

3 ENERGY			
17	List few ways that you use energy in your institute. (Electricity, LPG, firewood, others). Using this list, try to think of ways that you could use less energy every day.		By using the LED bulb and solar street lights we are saving on electricity consumption. Also, Solar panels on rooftops are installed with a capacity of 50 Kilowatts.
18	Are there any energy-saving methods employed in your institute? If yes, please specify. If no, suggest some		Yes, renewable sources of energy by using solar panels over street lights and solar panels with a capacity of 50 Kilowatts on the rooftop are installed on campus.  Also, the institute is planning for more than 50 Kilowatts of solar installation.
19	How many CFL/LED bulbs have your institute installed?		LED Tube lights = 813
20	Are any alternative energy sources employed/installed in your institute? (photovoltaic cells for solar energy, windmill, energy-efficient stoves, etc.) Specify.		Yes, Photovoltaic cells for solar energy in street lights.
21	Do you run "switch off" drills at the institute?		No
22	Are your computers and other equipment put on power-saving mode?		Yes
23	Does your machinery (TV, AC, Computer, weighing balance, printers, etc.) run on standby modes most of the time? If yes, how many hours?		No
		<b>Month</b>	<b>Electricity Consumption (KVAH)</b>
		Jan-21	7973
		Dec-20	6609
		Nov-20	10526
		Oct-20	16826
		Sep-20	15926
		Aug-20	18451
		Jul-20	15926
		Jun-20	17795
		Mar-20	7403
		Feb-20	9848
		Jan-20	10884
	The table showed the power consumption details of last year		

For Techno India NJR Institute of Technology  
 पंकज पोखराण  
 Dr. Pankaj Kumar Porwa  
 (Principal)

4 WATER CONSERVATION			
24	The list of uses of water in your institute		The basic uses are Drinking, Kitchen & Toilets, Gardening, Vehicle cleaning, etc. We have installed a RO plant of capacity 50 LPH
25	How does your institute store water? Are there any water-saving techniques followed in your institute?		An underground water tank of capacity 3 Lakh Liters is used to Pump water to various places.
26	If there is water wastage, specify why and How can the wastage be prevented/stopped?		No
27	Locate the point of entry of water and point of exit of wastewater in your institute.		Entry Point – Borewell Exit Point – 1. R.O Water – Garden 2. R.O Water – Toilet 3. Bathroom – Garden 4. Rest Water – Water harvesting Pit
28	Write down few ways that could reduce the amount of water used in your institute		1. By avoiding unnecessary or wastage of water. 2. Water conservation awareness programs need to be scheduled.
29	Record water use from the institute water meter for six months (a record at the same time of each day). At the end of the period, compile a table to show how many liters of water have been used.		Calculation of water usage is shown below
30	Does your institute harvest rainwater?		Yes, Institute has planned a water harvesting system.
31	Is there any water recycling System?		Yes, R.O Water is fed to the garden and is also attached to toilet supplies.
		<b>Month</b>	<b>Water Consumption (KL)</b>
	<b>1</b>	Jan 2020	94
	<b>2</b>	Feb 2020	135
	<b>3</b>	Mar 2020	225
	<b>4</b>	Apr 2020	240
	<b>5</b>	May 2020	230
	<b>6</b>	Jun 2020	220

For Techno India NJR Institute of Technology

पंकज पोखवाल

Dr. Pankaj Kumar Porwal  
(Principal)

<b>5</b>	<b>CLEAN AIR</b>					
<b>32</b>	Are the Rooms on Campus are Well Ventilated?	<b>Yes</b>				
<b>33</b>	Window Floor ratio of the Rooms	<b>Good</b>				
<b>34</b>	Provide details of school-owned motorized vehicles?	Buses	Cars	Vans	Other	Total
	No. of vehicles	10	07	01	--	17
	No. of vehicles more than five years old	10	05	00	--	15
	No. of Air conditioned vehicles	--	04	--	--	04
	PUC done	10	07	01	--	18
<b>35</b>	Specify the type of fuel used by your school's vehicles:	Total				
	Diesel	12				
	Petrol	05				
	CNG	--				
	LPG	--				
	Electric	--				
<b>36</b>	Air Quality Monitoring Program (If Any)	Institute is planning for its air quality monitoring system. Air quality monitoring is being done by approved laboratory.				
<b>37</b>	Do students suffer from respiratory ailments? (If Any)	None				
<b>38</b>	Details of Genet	Yes, a total of 3 Generators of 15 KV, 62.5 KV (spare) and 125 KV are installed throughout the campus.				

For Techno India NJR Institute of Technology  
 पंकज पोखवाल  
 Dr. Pankaj Kumar Porwal  
 (Principal)

6 ANIMAL WELFARE		
39	List the animals (wild and domestic) found on the campus (dogs, cats, squirrels, birds, insects, etc)	Cows, Squirrels, birds.
40	How many dogs in your area have undergone Animal Birth Control - Anti Rabies (ABC-AR)?	NA
41	Does your institute have a Biodiversity program or a KARUNA CLUB?	NA

7 ENVIRONMENTAL LEGISLATIVE COMPLIANCE		
42	Are you aware of any environmental Laws pertaining to different aspects of environmental management?	Yes
43	Does your institute have any rules to protect the environment? List possible rules you could include.	Yes, we are working on using more conventional sources of energy in our institute and also tree plantation drives are being organized on regular basis.
44	Does Environmental Ambient Air Quality Monitoring conducted by the Institute?	Yes
45	Does Water and Wastewater Quality monitoring conducted by the Institute?	Yes
46	Does stack monitoring of DG sets conducted by the Institute?	No
47	Is any warning notice, the letter issued by state government bodies?	No
48	Does any Hazardous waste generated by the Institute?	Yes.
49	Does any Biomedical waste generated by the Institute? If yes explain its category and disposal method	No

For Techno India NJR Institute of Technology  
 पंकज पोरवाल  
 Dr. Pankaj Kumar Porwal  
 (Principal)

## 4. Clean and green campus recognitions / awards

# ANNEXURE PHOTOGRAPHS OF ENVIRONMENT CONSCIOUSNESS

For Techno India NJR Institute of Technology  
पंकज पोखवाल  
Dr. Pankaj Kumar Porwal  
(Principal)



For Techno India NJR Institute of Technology  
पंकज पोखवाल  
Dr. Pankaj Kumar Porwal  
(Principal)



Biliya, Rajasthan, India  
Unnamed Road, Biliya, Rajasthan 313003, India  
Lat N 24° 31' 4.836"  
Long E 73° 45' 6.4584"  
05/02/21 11:23 AM



Biliya, Rajasthan, India  
Unnamed Road, Biliya, Rajasthan 313003, India  
Lat N 24° 31' 4.3896"  
Long E 73° 45' 4.6836"



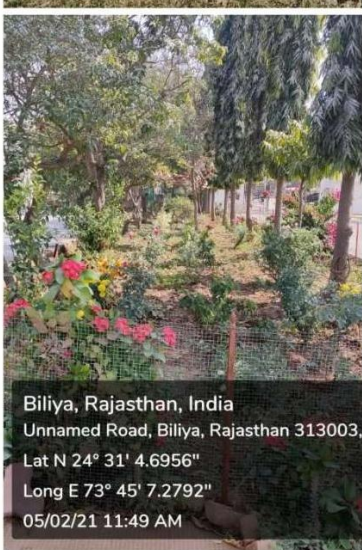
Biliya, Rajasthan, India  
Unnamed Road, Biliya, Rajasthan 313003  
Lat N 24° 31' 3.7848"  
Long E 73° 45' 6.0948"  
05/02/21 10:54 AM



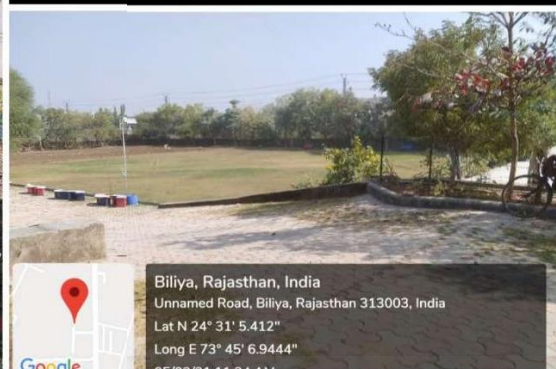
Biliya, Rajasthan, India  
Unnamed Road, Biliya, Rajasthan 313003,  
Lat N 24° 31' 4.998"  
Long E 73° 45' 6.6672"  
05/02/21 11:24 AM



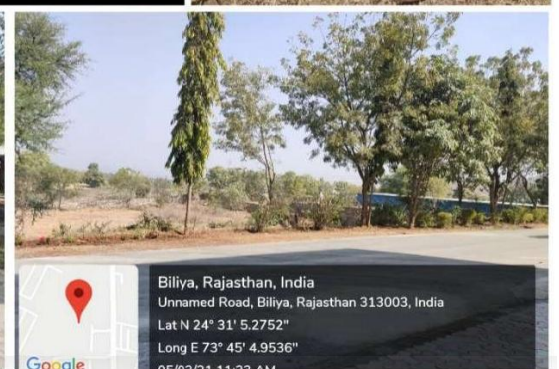
Biliya, Rajasthan, India  
Unnamed Road, Biliya, Rajasthan 313003  
Lat N 24° 31' 1.6716"  
Long E 73° 45' 7.272"  
05/02/21 10:58 AM



Biliya, Rajasthan, India  
Unnamed Road, Biliya, Rajasthan 313003,  
Lat N 24° 31' 4.6956"  
Long E 73° 45' 7.2792"  
05/02/21 11:49 AM



Biliya, Rajasthan, India  
Unnamed Road, Biliya, Rajasthan 313003, India  
Lat N 24° 31' 5.412"  
Long E 73° 45' 6.9444"  
05/02/21 11:34 AM



Biliya, Rajasthan, India  
Unnamed Road, Biliya, Rajasthan 313003, India  
Lat N 24° 31' 5.2752"  
Long E 73° 45' 4.9536"  
05/02/21 11:23 AM

For Techno India NJR Institute of Technology  
पंकज कुमार चौधरी  
Dr. Pankaj Kumar Choudhary  
(Principal) M.E. (Environmental Engineering)  
Ph.D (Civil Engineering)



To,

Dr. Sangeta Choudhary,  
Associate Professor,  
Department of Civil Engineering,  
Techno India NJR Institute of Technology,



ICLEI's mission is to build and drive a worldwide movement of local governments to achieve tangible improvement in global sustainability with a focus on environmental protection through innovative local actions.

11th, Vasth Road,  
C-9, Lower Ground Floor,  
Green Park Extension,  
New Delhi - 110016, India

Phone: +91 11-4074 7000  
Fax: +91 11-4074 3100  
E-mail: [info@icledi.org](mailto:info@icledi.org)

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York

Tel: +1 212 717 47 80/81  
Fax: +1 212 717 62 84-85  
Email: [info@icledi.org](mailto:info@icledi.org)

legally represented by:  
CLEI (Management) Inc.

World Wide Web:  
[www.icledi.org](http://www.icledi.org)  
[www.icledi.org](http://www.icledi.org)

## Certificate of Appreciation

This certificate of appreciation is issued to Techno India NJR Institute of Technology Udaipur for successfully completing the social welfare project "Pilot Study and Implementation of Solid Waste Management System in Savina Vegetable Market at Smart City Udaipur in Rajasthan" by students and faculties of Civil Engineering Department at Techno India NJR Institute of Technology, Udaipur. This project was executed with support and cooperation from Nagar Nigam Udaipur, Management of Savina Vegetable Market, ICLEI- South Asia and Sector Master Udaipur.

With regards,

Binayakra Salodia  
Senior Project Office - Udaipur  
ICLEI South Asia- Local Government for Sustainability

On behalf of  
Deputy Secretary General, ICLEI &  
Executive Director, ICLEI South Asia- Local Government for  
Sustainability

ICLEI was founded in the year 1988  
is the international council for  
local Environmental Initiatives.

For Techno India NJR Institute of Technology  
पंकज पोखवाल  
Dr. Pankaj Kumar Porwal  
(Principal)

**Beyond the  
campus  
environmental  
promotion  
activities**

For Techno India NJR Institute of Technology  
पंकज पोरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)



## KALADWAS CHAMBER OF COMMERCE & INDUSTRIES

SP L-1, I.I.O. Centre, RIICO KALADWAS, Udaipur - 313003 (Raj.)  
E-mail : kcci.udaipur@gmail.com, Web : www.kcciudaipur.com

**Treasurer :**  
Hemant JAIN

**President**  
Rajendra Surana  
9351456327

**Secretary**  
Gitesh Sharma  
8828364777

Ref.No. :

Date: 30-6-2021

**Vice President :**  
Om Lakshmi

Kaladwas Chamber of Commerce and Industries is the lead industry Chamber of RIICO Industrial Area, Kaladwas with more than 300 industries as members.

**Joint Secretary :**  
Jasdev Singh Rathore

This is to confirm that Techno India NJR Institute of Technology had partnered with Kaladwas Chamber of Commerce and Industries in providing free food to needy people including 100 lunch packets and 100 Dinner packets everyday to needy people during Covid -19 pandemic months of April and May for 45 days.

**Co-Treasurer :**  
Ashish Jain

Whereas KCCI provided dry ration, Techno India NJR team cooked food at their campus free of cost and distributed 200 food packets at their gate.

**Executive :**  
Abbas Ali Sha  
Arvind Mehta  
Govind Shrivastav  
Jigneshkumar Lohar  
Kamla Lal Dangal  
Lokesh Mishra  
Manish Choudhary

Techno NJR also installed a Sanitising chamber at their gate for people coming to collect food packets. They also provided one sanitising tunnel for KCCI free of cost.

Mullesh Jain  
Prabhu Lal Dangal  
Prashant Mishra  
Rakesh Kohra  
Vikas Mohanti

*Rajendra Surana*  
(Rajendra Surana)  
President

For Techno India NJR Institute of Technology

*पंकज पौरवाल*  
Dr. Pankaj Kumar Porwal  
(Principal)



# KALADWAS CHAMBER OF COMMERCE & INDUSTRIES

SPL-2, I.I.D. Centre, RIICO KALADWAS, Udaipur - 313003 (Raj.)

E-mail : kcci.udaipur@gmail.com, Web : www.kcci.udaipur.com

## President

Rajendra Surana  
9351458327

## Secretary

Girish Sharma  
9829384777

Treasurer :

Hemant Jain

Vice President :

Om Lalani

Joint Secretary :

Jitendra Singh Rathore

Co-Treasurer :

Abhishek Jain

Executive :

Abhishek Ali Hita

Anand Mehta

Govind Bhandari

Jaganmohi Lalani

Kashu Lal Dangal

Lokesh Vashita

Manish Chandoliya

Mukesh Jain

Prabhu Lal Dangal

Pran Manoria

Rakesh Kabra

Vikas Motwani

Ref.No.:

Date: 17/2/18

Kaladwas Chamber of Commerce and industries is the lead industry Chamber of RIICO Industrial Area, Kaladwas with more than 300 industries as members.

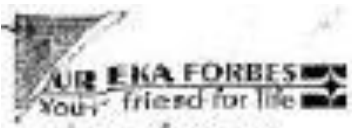
This is to confirm that Techno India NJR Institute of Technology has installed R.O Plant with the capacity of 500 litres per hour at the gate of college for free supply of clean R.O water free of cost for workers in RIICO Industrial Area and nearby villages.

Hundreds of workers/villagers have benefitted with their philanthropic activity by getting clean drinking water.

We thank Techno India NJR for their concern for the society.

(Rajendra Surana)  
President

For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)



INVOICE

33

**EUREKA FORBES LTD.**  
 DELTA FRODO PLAST: Plot No. 89 8581A23, Road  
 Number : 4 Dalpur 302013  
 UDAIPUR INDIA

Inv. No : 0270390009 Date : 12-04-2016  
 Order. No : 0020000422 Date : 08-04-2016  
 DC. No : 07410248 Date : 12-04-2016  
 PO. No:FD-04.04.2016 Date : 12-04-2016

**CUSTOMER'S NAME & ADDRESS**

**DESPATCH TO:**

Customer ID : 0010018  
 Techno India NJR Institute of Technology  
 NIR Knowledge Campus, Plot-891-3  
 Bypass Road (Old) Industrial Area, Udaipur  
 UDAIPUR 312003  
 Tel : 02942650214 Cell : Techno Ind  
 Email : tech@nirj@gmail.com

TECHNO INDIA NIR INSTITUTE OF TECHNOLOGY  
 NIR KNOWLEDGE CAMPUS, PLOT-891-3  
 BYPASS ROAD (OLD) INDUSTRIAL AREA, UDAIPUR  
 UDAIPUR 312003

Sl. No.	ITEM CODE	DESCRIPTION OF GOODS	QTY.	RATE PER UNIT Rs.	AMOUNT Rs.
1	0270390009	ALL EQUIPMENT USING TPC MEMBRANE BOI	1	100,000.00	100,000.00
		Gross Weight			100,000.00
		IN A/R Vm. Feasible		18.500	27,325.00
		Invoice Amount			211,999.00
RUPEES : TWO LAKH FIFTY SEVEN THOUSAND NINE HUNDRED NINETY NINE AND SIXTY SEVEN Paise ONLY.					

**COMPL. BANKED**  
 Cr. No. 50,000/2016  
 Amt. 211,999.00  
 Date 12/04/16

**DUPLICATE**  
**EUREKA FORBES LIMITED**  
 NAYLOR LOGISTICS WARE PVT. LTD.  
 Sector No. 0186  
 Phase 13-04  
 Udaipur  
 Vehicle No. BTND 4801  
 Vehicle to: H-2021 Time 2:30  
 Security Signature: \_\_\_\_\_

Sales warranty given for warranty conditions  
 Payment Terms : 100% ADVANCE DELIVERY/INSL  
 Sales Person : 0227446 - Laksh Choudhary Exec

TIN/EOR No. 0901160131 01/04/2006 CST No. 08A3162123 01/04/2006  
 GST No. 02Y109W1331P1C067019  
 PAN : ANND5787F  
 02/04/2016

**R.O. Plant installed for Workers & Villagers.**

For Eureka Forbes Limited

SALES OFFICE: Shop No. 103 204 2nd floor, The Park II, 88F  
 Block, JALPURI 302001  
 TEL: 0294-221187E

Authorized Signatory

EAOE

For Techno India NJR Institute of Technology  
**पंकज पोखवाल**  
 Dr. Pankaj Kumar Porwal  
 (Principal)



## KALADWAS CHAMBER OF COMMERCE & INDUSTRIES

SPL-7, I.I.D. Centre, REC0 KALADWAS, Udaipur - 313103 (Raj.)  
E-mail: kcci.udaipur@gmail.com, Web: www.kcci.udaipur.com

**Treasurer :**  
Hemant Jain

**Vice President :**  
Om Lalvani

**Joint Secretary :**  
Ajendra Singh Rathore

**Co-Treasurer :**  
Abhishek Jain

**Executive :**  
Abhishek Mehta  
Arvind Mehta  
Govind Bhadwal  
Jaganmohi Lohar  
Keshu Lal Dangl  
Lokesh Washta  
Manish Chandalya  
Mukesh Jain  
Prabhu Lal Dangl  
Pran Manojya  
Rakesh Kabra  
Vikas Motwani

**President**  
Rajendra Surana  
9381488327

**Secretary**  
Girish Sharma  
9829364777

Ref.No.:

Date: 14/2/19

Kaladwas Chamber of Commerce and industries ( KCCI ) is the lead industry Chamber of RIICO Industrial Area, Kaladwas with more than 300 Industries as members.

This is to confirm that Techno India NJR Institute of Technology had donated 300 Tree Guards costing Rs. 141,000/- for Green Kaladwas Drive organised in the month of July 2016. .

We thank the Institute for their generous support in community and social support activities of Kaladwas area and nearby villages.

*Rajendra Surana*  
(Rajendra Surana)  
President

For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)

No. : 08504003807

Mobile : 09819500512



# A.K. Engineering Works

Tin Shade Structures, Green Net Houses, Tree Guard, School Furniture  
Section Window, Rolling Shutter, Grills, Steel Door, Steel Equipment & Fabrications  
Rastradoot Press Street, Near A-One School, Ayad, Udaipur (Raj.)

Message: TECHNO NJR  
College Udaipur

### VAT INVOICE

Bill No. 252

Date: 24/02/2018

S. No.	PARTICULARS	Qty./Weight	Rate	Amount
1	Labour work: Tire guard, 5x10" MS Seat welding & PM. MS Pipe cutting & welding MS Jali cutting & welding Complete labour work	300 Nos	470/- per no. work	141000/-
<p><b>BILL PASSED</b> Ch. No. <u>662411k</u> 2018 Am. <u>252</u> 66020 Date <u>24/2/18</u> 24/02/18 Oil 257 TIRAJUMAL</p>				
<p>Rs. in words: <u>One Lac forty one thousand only</u></p>				TOTAL 141000/-
				Vat @ .....% 241200/-
				Transportation
				G.Total 141000/-

All Subject to Udaipur Jurisdiction Only  
Local Once Sold will not be taken back.  
I & O E

For : A.K. Engineering Works

Customer's Signature

Authorized Signatory

For Techno India NJR Institute of Technology

पंकज पोखवाल  
Dr. Pankaj Kumar Porwal  
(Principal)

संख्या  
Enrollment No. 03/03/503

अनुसंधान  
Roll No. 2262387

# जय नारायण व्यास विश्वविद्यालय, जोधपुर

(पूर्व जोधपुर विश्वविद्यालय)

103170



ज्जाणिता विद्या जगता हे वि संपीया चोदरी

पुत्र/पुत्री श्रीमती सुमित्रा चौधरी

एवं श्री शिव रतन चौधरी

ने इह विश्वविद्यालय से 2013 की परीक्षा में

## मास्टर ऑफ इंजीनियरिंग सिविल इंजीनियरी पर्यावरण इंजीनियरी

की उपाधि द्वितीय श्रेणी में प्राप्त की

## JAI NARAIN VYAS UNIVERSITY, JODHPUR

(FIRST/WHILE UNIVERSITY OF JODHPUR)

This is to certify that SANGEETA CHOUDHARY

Son/Daughter of Smt. SUMITRA CHOUDHARY

and Shri SHEV RATAN CHOUDHARY

obtained the degree of

**MASTER OF ENGINEERING-CIVIL ENGINEERING**

**ENVIRONMENTAL ENGINEERING**

of this University in the

Examination held in 2013 and that

he/she was placed in the SECOND Division

Vice-Chancellor  
जय-नारायण-व्यास

Conferred by Senate on 18/03/2013

For Techno India NJR Institute of Technology

पंकज पौरवाल

Dr. Pankaj Kumar Porwal  
(Principal)





Enrollment No. 037005993

# जय नारायण व्यास विश्वविद्यालय, जोधपुर

22242B (पूर्व जोधपुर विश्वविद्यालय)

प्रमाणित किया जाता है कि संगीता चौधरी  
पुत्र/पुत्री श्रीमती सुमित्रा चौधरी  
एवं श्री शिव रतन चौधरी  
ने इस विश्वविद्यालय से 2017 की परीक्षा में

## डॉक्टर ऑफ फिलॉसॉफी सिविल इंजीनियरी

की अवधि प्राप्त की है। — जय नारायण विश्वविद्यालय में

A STUDY OF KOSANA SAND MINING SITE ON MITHRI RIVER TO DETERMINE SAFE ALLOWABLE LIMIT OF WITHDRAWAL OF SAND PER YEAR BY CONDUCTING QUALITATIVE ENVIRONMENTAL ASSESSMENT AND MATHEMATICAL MODELLING OF SAND EROSION AND YIELD

## JAI NARAIN VYAS UNIVERSITY, JODHPUR

(EARSTWHILE UNIVERSITY OF JODHPUR)

This is to certify that SANGEETA CHOUDHARY  
Son/Daughter of Sr. SUMITRA CHOUDHARY  
and Shri SHIV RATAN CHOUDHARY  
obtained the degree of

## DOCTOR OF PHILOSOPHY CIVIL ENGINEERING

of this University in 2017

The topic of his/her research was

A STUDY OF KOSANA SAND MINING SITE ON MITHRI RIVER TO DETERMINE SAFE ALLOWABLE LIMIT OF WITHDRAWAL OF SAND PER YEAR BY CONDUCTING QUALITATIVE ENVIRONMENTAL ASSESSMENT AND MATHEMATICAL MODELLING OF SAND EROSION AND YIELD

Vice-Chancellor  
उपकुलपति

Confirmed by Senate on 18/05/2017

For Techno India NJR Institute of Technology

पंकज पौरवाल

Dr. Pankaj Kumar Porwal  
(Principal)



## Policies



# TECHNO INDIA NJR INSTITUTE OF TECHNOLOGY

Approved by AICTE & Affiliated to Rajasthan Technical University

www.technonjr.org

NJR Knowledge Campus, Plot-SPL-T, Bhamashah (RIICO) Industrial Area, Kaladwas, Udaipur - 313003 (Raj.)  
Tel. : +91 2942650214-17 Fax :+91 2942650218, Email : technonjr@gmail.com, director@technonjr.org

### ENERGY POLICY

Over the past two decades, India has made incredible strides in improving access to reliable and affordable energy that is critical for economic growth. Hundreds of millions of households have been connected to the electricity grid for the first time. But the growing demand for energy in India has largely been met by abundant, inexpensive, and highly-polluting coal. As a result, India is now the fastest growing carbon emitter in the world, and annual concentrations of particulate pollution have increased by 60 percent between 2000 and 2016. These pollution and carbon emissions will only grow as hundreds of millions more citizens gain access to reliable electricity.

Hence it is responsibility of technical institute too to frame and obey the policy of its own.

The broad scope of work for the energy policy is –

1. Quantitative and qualitative study of all components of energy payable
2. System network, rating /capabilities, operational pattern and energy metering systems
3. Study of capacitor banks positioning , adequacy, energy dissipation in capacitor banks and measures to minimize losses
4. Analysis for performance of connected /drive equipment in respect of energy consumption and output
5. Suggestions /measures to reduce transmission losses, distribution feeder losses
6. Proper usage of equipment like transformer, air conditioner etc

#### **Actions taken in 2019-20**

- Increase solar power generation (50 KW to 100 KW)
- Monitor energy consumption through smart meters
- Use of 1000 power consumption equipments like LED bulbs, solar street lights etc.

For Techno India NJR Institute of Technology

  
(Prof. Prasun Chakrabarti)  
Provost

For Techno India NJR Institute of Technology  
पंकज पौरवाल  
Dr. Pankaj Kumar Porwal  
(Principal)



# TECHNO INDIA NJR INSTITUTE OF TECHNOLOGY

Approved by AICTE & Affiliated to Rajasthan Technical University

www.technonjr.org

NJR Knowledge Campus, Plot-SPL-T, Bhamashah (RIICO) Industrial Area, Kaladwas, Udaipur - 313003 (Raj.)  
Tel. : +91 2942650214-17 Fax :+91 2942650218, Email : technonjr@gmail.com, director@technonjr.org

## ENVIRONMENTAL POLICY

The long term goal of our institute as per the policy includes educating students and employees on environmental concerns and sustainability; to evolve Research and Development programs that could turn an institute into a carbon-negative institute; to include environment concerns in planning and decision making; to encourage collaborations among institutes etc.

Environmental policy is policy that pertains to our interactions with our environment. The main goal of environmental policy is to regulate resource use or reduce pollution to promote human welfare and/or protect natural systems. Environmental policy can include laws and policies addressing water and air pollution, chemical and oil spills, smog, drinking water quality, land conservation and management, and wildlife protection, such as the protection of endangered species.

### **Guidelines-**

- The College will consider the environmental impact of its development, communications, procurement, curriculum, research and campus activities.
- The College will encourage the conservation of native ecosystems on campus, where possible, and will use these natural classrooms to teach stewardship and environmental responsibility.
- The College will strive to practice ecological responsibility focused on the preservation of its natural woodlands and gardens.
- The College will broaden its commitment to environmental education by introducing, where practical, relevant environmental content to curriculum material.
- The College will seek to minimize its impact on landfills through the promotion of best practices to reduce, reuse and recycle.
- The College will strive to minimize damage to non-target biological organisms through the elimination of pesticides in lawn and garden applications, with limited exception.
- The College will promote the use of environmentally conscious transportation to all members of the community, including public transit and car-pooling.
- The College will partner with other educational institutions and government agencies to improve best practices in its operations.
- The College will provide waste diversion and recycling stations and item-specific collection options in high-traffic areas across campus.

### **Actions taken in 2019-20**

- Regular assessment of air and water quality
- Support Kaladwas area plantation activity
- Supply clean water to neighbouring villages

For Techno India NJR Institute of Technology

  
(Prof. Prasun Chakrabarti)  
Provost

For Techno India NJR Institute of Technology  
  
Dr. Pankaj Kumar Porwal  
(Principal)

