



# TAMIL NADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY

Melakottaiyur, Chennai-127

## CRITERION 7 – INSTITUTIONAL VALUES AND BEST PRACTICES

### **7.1.6: Quality audits on environment and energy regularly undertaken by the institution:**

#### **List of supportive documents**

The following documents are attached in support of measures initiated by the Institution for Green, Environment and Energy Audit.

1. Green, Energy and Environment Policy
2. Green and Environment Audit Report
3. Energy Audit Report
4. Creation of Miyawaki Forests
5. Creation of Ponds



**TAMIL NADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY**

Melakottaiyur, Chennai-127

**CRITERION 7 – INSTITUTIONAL VALUES AND BEST PRACTICES**

**1. Green Energy and Environment Policy**

**Tamil Nadu Physical Education and Sports University**

**Chennai – 600127**

**GREEN CAMPUS, ENVIRONMENT  
AND ENERGY USAGE POLICY**



**TAMIL NADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY**

Melakottaiyur, Chennai-127

**CRITERION 7 – INSTITUTIONAL VALUES AND BEST PRACTICES**

**Tamil Nadu Physical Education and Sports  
University**

**Chennai – 600127**

**GREEN CAMPUS, ENVIRONMENT  
AND ENERGY USAGE POLICY**

**Contents**

1. Preface
2. Definition of Green Campus
3. Objectives
4. Green Campus Practices in the University



# TAMIL NADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY

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## CRITERION 7 – INSTITUTIONAL VALUES AND BEST PRACTICES

### Tamil Nadu Physical Education and Sports University

Chennai - 600127

#### GREEN CAMPUS, ENVIRONMENT AND ENERGY USAGE POLICY

##### 1. Preface:

Tamil Nadu Physical Education and Sports University protects its own environment with its green campus initiative and keeps pollution free campus. Environment development is its basic work with the educational policies implemented on the campus. Environmental conscious administration, the staff and the students of the University look after the environment carefully.

##### 2. Definition of Terms:

A Green Campus is a place where environmental friendly practices and education combine to promote sustainable and eco-friendly practices in the campus. The green campus concept offers an institution the opportunity to take the lead in redefining its environmental culture and developing new paradigms by creating sustainable solutions to environmental, social and economic needs of the mankind.

##### 3. Objectives of the Green Campus, environment and energy usage policy:

- i. To create awareness regarding environmental policy amongst the students and the staff members.
- ii. To maintain pollution free campus by avoiding tobacco, pan-masala, chewing on the campus. As per the govt. rules and regulations regarding the instructions of tobacco free campus signboards are displayed at various places on the campus.
- iii. To Use Solar Energy on University Campus by installing Solar Lamps and Solar water Heaters .
- iv. To sensitize the students and staff regarding the use of drinking water properly and other water sources sensibly.
- v. To encourage tree plantation and maintenances of trees in the campus among students and staff.
- v. To bring in use the 'Rain Water Harvesting' on the campus.



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- vi. To maximize the use of ICT and minimize the use of paper. It will help to go towards 'Paperless Office'.
- viii. To use the solid waste through vermin-compost on the campus and use it as a fertilizer.
- viii. To use 'Use me' dust bins in the campus so as to keep campus clean
- ix. To protect and nurture the Flora and Fauna on the campus
- x. To maintain green campus, 'Green Audit' is done regularly.

### 4) Green Campus Environment and Energy Usage Practices in the University

#### (a) Restricted Entry of Automobiles:

The movement of automobiles vehicles such as two wheeler, cars and other heavy vehicles are restricted from the administrative block of the University. The car parking and two wheeler parking are available next to the administrative block so that no vehicles could enter into campus beyond administrative block.

#### (b) Use of Bicycles/Battery powered vehicles:

The University encourages the use of bicycles by the students as well as the staff of the University so as to make the campus pollution free.

#### (c) Pedestrian Friendly Pathways:

The pedestrian friendly pathway will be added for the people from the main gate to the administrative block of the University campus.

#### (d) Ban on use of Plastic:

The University has banned the use of single use plastics inside the campus. In this regard, the plastics awareness day was observed in the university campus so as to make the students and staff known the impact of the uses of single use plastics.

#### (e) Green Audit:

The University campus has more than 1,200 well grown trees which make the campus Eco-friendly. The University, with the help of Forest Department, conduct tree plantation drive in the University regularly. An exclusive green house has been setup in the University in which more than one hundred ornamental plants which looks beautiful. Besides these initiatives, lawns with plants are there in front of the administrative building, science block, hostels & also cycling velodrome. All these efforts make the University campus greenish and eco-friendly.



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The forest officials visited the campus for conducting the green audit and submitted the report. Wherever possible in the front position of the University buildings such as administrative service block, hostel, indoor stadium and cycling velodrome are landscaped with plants and trees and the same are well maintained.

### (f) Energy Audit:

The University ensures that no energy is wasted unnecessarily in its campus. The university has employed adequate man power to monitor energy consumption in the university campus which leads to energy conservation of the total lighting requirements. At least 20% of the lightings is through LED bulbs. The University has decided to replace all the existing bulbs by LED bulbs in another one year. The students of different classes are informed to optimize the use of energy in their respective classes. Further, the University has also taken initiatives to conserve energy through sensor base technology for some of the facilities especially at the Administration Block of the University

### (g) Environmental Audit:

The university takes at most care in conserving the environment in the campus through the following initiatives:

- i. The usage of single use plastics is totally banned in the campus.
- ii. All automobiles (two wheelers & four wheelers) are not allowed inside the campus after administrative buildings of the University.
- iii. Parking for both two wheelers and four wheelers are available near to the administrative building of the University.
- iv. Students and Staff are encouraged to use bicycles for local mobility.
- v. Wastages are segregated as biodegradable & non-biodegradable and the same are collected by local panchayat (municipality) people.
- vi. The NSS unit of the university in collaboration with forest officials conducts programmes of planting of trees regularly in the campus.
- vii. The University maintains the ecosystem in such a way that wild birds and animals are safe and free to move around.
- viii. The University makes sure that the lake and the quarry available inside the campus are not contaminated but protected and preserved carefully.



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(h) Beyond the campus environmental promotion activities:

The University recognizes the need for preserving the environment not only within the campus but also beyond the campus through the efforts of students of all courses continuously by the Village Placement Program (VPP). At least one day is fully devoted by the students for exclusively planting of trees in the nearby villages out of the total five days of the Village Placement Program. This is a compulsory academic program for all the final year students. By these initiatives of the University, the schools, temples, other public places of nearby villages are cleaned and planted trees for conserving the environment.

(i) Water Conservation facilities available in the Institution:

1) Rain Water Harvesting:

The 125 acre University campus consists of a lake of 15 acres and a quarry of 8 acres. The buildings of the University having provisions for rain water harvesting and the downstream of the campus make way for the rain water to store in the lake and also quarry which are the source of water for the entire campus. It is very well maintained taken care of by the University.

2) Borewell / Open well recharge:

The University has three open wells which are very well maintained and also has a bore well which is used to bring water from the quarry to different buildings of the University.

3) Construction of Tanks and bunds:

The University has one overhead tank with the capacity of 20,000 liters which caters to the need of hostel and mess. Besides this, each building has an overhead tank for providing water for the use of people in the respective building.

4) Maintenance of Water bodies and distribution system in the campus:

The University maintains water bodies properly and make sure that the distribution of water to different buildings optimally through a systematic distribution system without any wastage of water.



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### (j) SOLID WASTES:

- In the University campus, the solid wastes are categorized as biodegradable and non-biodegradable and the same are accumulated at different collection bins, the people from local Panchayat collect this solid wastes twice in a week.
- The paper wastes generated from different sections of the University are disposed once in three months.
- All the others kinds of scraps such as wooden material, plastics, steels, materials are disposed by Scraps Disposal Committee once in three months.

### (k) LIQUID WASTES:

- The University makes sure that the use of water is optimized by all the Departments and Sections. The liquid wastes from the rest rooms and wash rooms of the hostel, administrative building and academic building, quarters etc., are reused for watering the plants and trees in the nearby area of the respective buildings. In order to avoid the wastages of water, the plumbers of the Estate Office check the pipe lines and taps regularly to arrest water leakages if any.
- The drinking water facilities are very well taken care of and thereby, it is ensured that no drinking water is wasted in the campus.

### (n) E-WASTES MANAGEMENT

- The e- wastes accumulated from different Departments and sections of the University are taken back by the company which is maintaining the computer hardware in the University through an agreement.

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# TAMIL NADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY



MINUTES OF THE 50<sup>TH</sup> MEETING OF THE SYNDICATE  
HELD ON 29.07.2020 (WEDNESDAY) – 03.00 P.M.



## Tamil Nadu Physical Education and Sports University

**MINUTES OF THE 50<sup>th</sup> MEETING OF THE SYNDICATE  
HELD ON 29.07.2020 (WEDNESDAY) - 03.00 P.M.**

The 50<sup>th</sup> Meeting of the Syndicate was held on 29.07.2020 (Wednesday) at 03.00 p.m. through Video conferencing (ZOOM MEETING).

Honourable Minister for School Education & Youth Welfare and Sports Development Department Thiru K.A. Sengottaiyan was gracious enough to inaugurate the 50<sup>th</sup> Syndicate Meeting of Tamil Nadu Physical Education and Sports University (organized through ZOOM) and offered felicitation for the successful completion of 15 years since inception and for the conduct of 50<sup>th</sup> Syndicate Meeting. The Syndicate Meeting commenced after the inauguration.

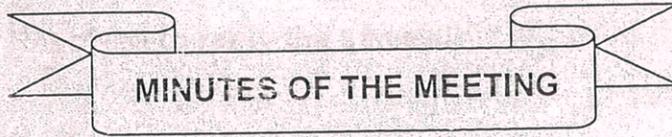
The following members attended the Meeting through ZOOM.

### MEMBERS PRESENT

S.NO	NAME OF THE MEMBERS	POSITION
1	The Vice-Chancellor, TNPESU	Chairman
2	The Principal Secretary to Government, Youth Welfare and Sports Development Department, Secretariat, Chennai - 09	Member
3	The Principal Secretary to Government, School Education Department, Secretariat, Chennai -9.	Member
4	The Principal Secretary to Government, Higher Education Department, Secretariat, Chennai -9.	Member
5	The Joint Secretary to Government on behalf of The Secretary to Government, Law Department, Secretariat, Chennai -9.	Member
6	The Principal Secretary & Member-Secretary, Sports Development Authority of Tamil Nadu, 116A, Periyar EVR High Road, Nehru Park, Chennai - 084.	Member
7	Mr. N. Ramachandran, President, Tamil Nadu State Olympic Association, Room No - 78, Jawaharlal Nehru Stadium, Chennai.	Member
8	Dr. K. Mohanraj, Physical Director and NCC Officer, SSV Higher Secondary School (Govt Aided), 10, Ganapathi Agraharam, Kodumudi, Erode District - 638 151.	Member
9	M. Thirunavukkarasu, Former District Inspector of Physical Education, 1539C, Phase 2, Sathuvachari, Vellore - 632 009.	Member
10	The Principal, Mother Teresa College of Physical Education Mettusalai, Illupur (Post), Pudukottai District - 622 102.	Member
11	The Principal, Meenatchi Physical Education College, Trichy Main Road, M.R. Kalvi Nagar, Thathanur (Po), Udayarpalayam (Tk), Ariyalur District.	Member

12	Dr. V. Mangaiyarkarasi, Professor, Department of Sports Management, Sports Psychology and Sociology, TNPESU	Member
13	Dr. R. Ramakrishnan, Professor and Head, Department of Advanced Sports Training and Sports Technology, TNPESU	Member
14	Dr. S. Premkumar, Professor & Head, Department of Sports Management, Sports Psychology and Sociology, TNPESU	Member

The leave of absence was granted to **The Principal Secretary to Government**, Health and Family Welfare Department, Secretariat, Chennai, **The Director**, Directorate of Collegiate Education, 9<sup>th</sup> Floor, EVK Sampath Maaligai, College Road, Chennai - 6



#### Item No - 1

To consider and confirm the 49<sup>th</sup> Meeting of the Syndicate held on 27.12.2019 (Friday) at 03.00 p.m. in the Conference Hall, 2<sup>nd</sup> Floor, Namakkal Kavignar Maaligai, Secretariat, Chennai - 600 009.

**Resolved to approve the same.**

#### Item No - 2

To consider and approve the report of the action taken on the resolutions passed in the 49<sup>th</sup> Meeting of the Syndicate held on 27.12.2019 (Friday) at 03.00 p.m. in the Conference Hall, 2<sup>nd</sup> Floor, Namakkal Kavignar Maaligai, Secretariat, Chennai - 600 009.

**Resolved to approve the same.**

Further it was suggested to place the pending action taken report of previous Syndicate Meetings by indicating its number, date and item number of an Agenda before the next Syndicate.

It was resolved to address a letter to the Government for seeking permission pertaining to fillingup of the various posts such as Controller of Examinations, Teaching and Non-Teaching as notified in the dailies dated - 25.01.2020 & 26.01.2020.

It was resolved to implement the University Business hours of this University from 09.45 a.m. to 05.30 p.m. from the Academic Year 2020-2021.

**Item No - 3**

To consider and ratify the action taken by this University in having made payment of Ad-hoc Bonus and Special Ad-hoc Bonus for the Accounting Year 2018-2019 based on the G.O. Ms. No - 2, Finance (Allowance) Department, dated - 06.01.2020.

Resolved to ratify the same.

**Item No - 4**

To consider and ratify the action of this University in having approved the work of providing additional EI and installation of dismantled pillar boxes in this University at a cost of Rs. 3.85 lakhs.

Resolved to ratify the same.

**Item No - 5**

To consider the adoption of G.O.Ms.NO.404 Finance (BPE), dated: 06.06.1991, G.O. Ms. No: 273, Finance (BPE), dt 28.03.1994 and G.O.Ms.No.274, Finance (BPE) dated: 28.03.1994.

Resolved to adopt the G.O.Ms.NO.404, Finance (BPE), dated: 06.06.1991, G.O. Ms. No: 273, Finance (BPE), dt 28.03.1994 and G.O.Ms.No.274, Finance (BPE) dated: 28.03.1994.

**Item No -6**

To consider and ratify the action taken by this University in connection with engaging of Dr. R. Subramanian, retired professor for another 3 month up to 30.04.2020.

Resolved to ratify the action taken by this University in connection with engaging of Dr. R. Subramanian, retired professor for another 3 months up to 30.04.2020.

**Item No. 7 & 8**

To consider and approve the Minutes of the Technical Evaluation to grant approval for opening of financial bids of equipments to be procured for Centre of Excellence in Sports Biomechanics laboratory under TANII Scheme.

The Syndicate suggested that, the equipment to be procured for Centre of Excellence in Sports Biomechanics Laboratory under TANII Scheme is approved by 37<sup>th</sup> Finance Committee, dated – 23.01.2020 and Finance Committee Circulation Agenda (June 2020) and hence need not be placed before the Syndicate.

**Item No. 9**

To consider and ratify the action taken by this University in connection with the disbursement of Contributory Pension Scheme Fund, Family Benefit Fund etc., in respect of Dr. P. Gopinathan, Assistant Professor (Retd.), Department of Sports Management and Sports Psychology and Sociology who retired from service on 30.06.2019.

S.no	Particulars	Amount
1	CPS	20,68,796
2	SPF	16,884
3	FPF	5,130
4	Surrender of Earned Leave (145 days)	5,32,575
5	UEL on Private Affairs	3,30,564
<b>TOTAL</b>		<b>29,53,929</b>

Resolved to ratify the same.

**Item No. 10**

To consider and ratify the action taken by this University in connection with the disbursement of terminal benefits in respect of Dr. R. Subramanian, Professor, Department of Advanced Sports Training and Technology who retired from service on 30.06.2019.

S.no	Particulars	Amount
1	Gratuity	1300890
2	Earned Leave	1485577
3	UEL	573828
4	Commutation	2659772
5	SPF	23262
6	FBF	4620
<b>TOTAL</b>		<b>60,47,949</b>

Resolved to ratify the same.

**Item No. 11**

To consider and approve the expenditure to raise the surface of Ground level by two feet height to avoid water logging of the proposed Synthetic Track (8 lanes) at a cost of Rs. 63.85/- lakhs based on the estimate prepared by the Sports Development Authority of Tamil Nadu and to meet the expenditure from the reimbursed amount of Rs. 2.22 crores of One Time Catch Up Grant released by the UGC XI Plan.

The Syndicate directed this University to follow the Finance Committee Circulation Agenda (June 2020) Minutes and the amount may be used out from RUSA Grant.

**Item No.12**

To consider and approve the estimated cost of Rs. 40,000/- to provide Bio-gas facility in the hostel mess of this University to fulfill the norms of NAAC REACCREDITATION and the said expenditure may be met from the University funds.

Resolved to approve the same.

**Item No. 13**

To consider and approve the purchase of a Xerox Machine for the use of the Office of the Vice-Chancellor and NAAC Office at an approximate cost of Rs. 1,19,750/- (approx.) + 18% GST and the expenditure may be met from the University funds.

Resolved to approve the same.

**Item No. 14**

To consider and adopt the G.O. (Ms). No 51, Personnel and Administrative Reforms (S) Department, dated - 07.05.2020 regarding enhancement of age of superannuation of Government servants from 58 years to 59 years.

Resolved to adopt the same.

**Item No. 15**

To consider and approve the payment of IIQA fee for Registration, Assessment and Accreditation Fee (A&A) and Logistics Fee towards NAAC Accreditation.

S. No	Description	Fee payable	GST 18%	Total
		Rs.		
1	IIQA Registration Fee	25,000	4,500	29,500
2	Assessment and Accreditation (A & A) Fee	3,75,000	67,500	4,42,500
3	Logistics Fee	3,00,000	54,000	3,54,000
			<b>Total</b>	<b>8,26,000</b>

**Resolved to approve the same.**

**Item No. 16**

To consider and approve the allocation of seed money of Rs. 5/- lakhs from the amount allotted in the University Budget 2019-2020 under the Head for the "Purchase of Machinery and Equipments" towards developing Research Culture and to enhance the quality of Research Publication.

The Syndicate appreciated this University regarding allocation of Seed Money and resolved to approve the same. Further it was resolved that necessary provisions to be made in the Budget regarding Seed Money.

**Item No. 17**

To consider and ratify the action taken by this University in connection with the construction of Multi-purpose Gymnasium at a rough cost of Rs. 5.10 crores under RUSA Grant.

**Resolved to ratify the action taken by this University in connection with the construction of Multi-purpose Gymnasium at a cost of Rs.5,10,00,000/- (Rupees Five Crore and Ten Lakhs Only) under the RUSA Grant.**

**Item No. 18 & 19**

To consider and approve the creation of Sports Centre for differently abled at Tamil Nadu Physical Education and Sports University under RUSA Grant

Resolved to approve the creation of Sports Centre for the differently abled at Tamil Nadu Physical and Sports University at an estimated amount of Rs. 4.55 crores out of which a sum of Rs. 2.90 Crores will be from RUSA Grant.

Further it was suggested to address the Corporate Companies to receive Corporate Social Responsibility Fund (CSR Fund) towards establishment of Sports Centre for Differently abled at TNPESU to meet out the rest of amount i.e., Rs. 1.65 Crores (Rs 4.55 – Rs. 2.90) or else it may be met from the University funds.

**Item No. 20**

To consider the request of PGP College of Yoga and Research Centre, Namakkal towards offering of Bachelor of Sports Coaching Programme.

Resolved not to agree with the request of PGP College of Yoga and Research Centre, Namakkal towards offering of Bachelor of Sports Coaching Programme at the Yoga College as this course should be offered only in a Physical Education College.

**Item No. 21**

To consider and direct the University over signing of the "offer letter" given by the Indian Bank, Nallambakkam towards the installation of Automatic Teller Machine (ATM) within the University Campus.

Resolved to approve the same.

**Item No. 22**

To consider and approve the guidelines to be followed for counting of past services rendered (before joining this University) by the teaching faculties of this University.

**Resolved to follow the UGC Regulations and the orders issued by the Government of Tamil Nadu from time to time in this regard.**

**Item No. 23**

To consider and approve the grant of Sabbatical Leave to Dr.V.Mangaiyarkarasi, Professor, Department of Sports Management and Sports Psychology and Sociology of this University for undertaking Research work.

**Resolved to defer the same as there will be a shortage of faculty and Dr. V. Mangaiyarkarasi is the only faculty for Sociology at present. The members also felt that the Research Proposal submitted by her needs better clarity.**

**Item No. 24**

To consider and absorb in respect of Dr. S. Manikandan, Professor & Head i/c., Department of Physical Education permanently in Tamil Nadu Physical Education and Sports University.

**Resolved to approve the absorption of Dr. S. Manikandan, Professor & Head i/c., Department of Physical Education permanently in Tamil Nadu Physical Education and Sports University.**

**Item No. 25**

To consider and approve the recommendation of Selection Committee / Interview Committee for the Evaluation of promotion under the Career Advancement Scheme [CAS] promotion from stage III to IV in respect of Dr. V. Muruguvalavan, Assistant Professor cum Medical Officer of this University.

**Resolved to approve the same.**

Item No. 26

To consider and approve the award of Doctor of Philosophy (Ph.D.,) Degree of various departments of Tamil Nadu Physical Education and Sports University based on their performance in the Public Viva-Voce and online Viva-voce Examination held on various dates as recommended by the External Examiners and Research Supervisor (Guide).

S. N	Reg No	Name of the Candidates	Title	Guide Name	Date of Viva-voce & Result
1	111	Mrs. J.V. Sasireka	Influence of Menstrual Cycle Phases on Selected Motor Ability Components and Physiological Variables between High and Low Performers of Kho-Kho Players	Dr. P. Samraj, Prof & Head (Retd). 2/97c, Kothangudi Thoppu Natarajapuram Road, Near Almighty Gym, Annamalai Nagar, Chidambaram.	08.01.2020 at 12.30 p.m Administrative Building, TNPESU, Chennai
2	145	Mr. Semmal Syed Meerasa	Relationship between Psychological Parameters and Inflammatory Biomarker C Reactive Protein Among Sports and Non Sports Personnel	Dr. Shahin Ahmed, Prof, Department of Sports Management, Sports Psychology and Sociology, TNPESU	09.01.2020 at 12.30 p.m. Administrative Building, TNPESU, Chennai
3	A1 501 YO FM 050	Mr. S. Pattabi	Impact of Astanga Yoga with and Without Super Brain Yoga on Selected Behavioural Cognitive and Socio-Psychological Parametres among Urban School Boys Learning Disabilities	Dr. Selvalakshmi, Asst. Prof & Head i/c., Department of Yoga, TNPESU	24.01.2020 at 02.30 P.M. Administrative Building, TNPESU, Chennai 127
4	A1 401 SPF MO 17	M. Lakshman kumar	Impact of Counseling and Life Skills Training on Psychosocial and sports performance among Amateur Tennis Players	Dr. Shahin Ahmed, Professor, Department of Sports Management and Sports Psychology & Sociology, TNPESU	07.02.2020 at 03.00 P.M. Administrative Building, TNPESU, Chennai 127

5	A1 501 SC PM 071	Mr. S. Umashankar	Isolated and Combined Effect of Randori and Uchikomi Training on Selected Anthropometrical Psychological and Performance Variables Among Junior State Level Judo KA's.	Dr. R. Subramanian, Prof (Retd), Department of Advanced Sports Training and Technology, TNPESU	18.02.2020 at 12.30 P.M. Administrative Building, TNPESU, Chennai 127
6	A1 503 PE FM 05 8	Mr. S. Arivazhagan	Effect of Specific Training Programme on Selected Motor Coordinative Psychological and Skill Performance of variables of Men Tennis Player	Dr. VST Saikumar, Principal & Secretary, Maruthi College of Physical Education, SRKV Post, Coimbatore	24.02.2020 at 11.00 a.m. Maruthi College of Physical Education, SRKV Post, Coimbatore
7	A1 403 PE PM 031	Mr. M. Prabu	Combined and Individualized Effect of Kalari and Sport Specific Training on Selected Physical Fitness Physiological Variables and Playing Ability of Kabaddi Players	Dr. VST Saikumar, Principal & Secretary, Maruthi College of Physical Education, SRKV Post, Coimbatore	13.03.2020 at 11.00 a.m. Administrative Building, TNPESU, Chennai 127
8	343	Mr S. Loganathan	Effect of Strength Endurance and concurrent Training on selected bio-motor and bio-chemical variables middle distance runners	Dr. S. Gladhy Kirubakar, Asst. Prof, YMCA College of Physical Education, Nandanam, Chennai	13.03.2020 at 12.00 Noon. Administrative Building, TNPESU, Chennai 127
9	A1 601 EP FM 101	Ms. G. Sona Santhakumari	Effect Floor Aerobic Exercises with and without Low Glycemic Diet on Physical Physiological Biochemical and Hematological Variables Among Male Type II Diabetic Mellius	Dr. Grace Helina, Prof & Head, Department of Exercise Physiology and Biomechanics, TNPESU	10.07.2020 ONLINE
10	A1 601 PE PM 082	Mr. S. Selva Murugan Mani	Influence of Resistance Cardiovascular and Concurrent Training on Selected Health Related Physical Fitness and Cardiopulmonary Parameters Among Middle Aged Men	Dr. P.K. Senthikumar, Assistant Professor, Department of Exercise Physiology and Biomechanics, TNPESU	15.07.2020 ONLINE

11	A1 502 PE PM 045	Ms. D. Naveena Priya	Analysis of Perceived Barriers to Physical Activity and Influence of Aerobic and Traditional Dances on Physical Health and Behavioural Regulation Among Female Adolescents	Dr. J. Glory Darling Margaret, Principal I/c., YMCA College of Physical Education, Nandanam, Chennai.	22.07.2020 ONLINE
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Resolved to approve the same. It was suggested that more foreign adjudicators from 'highly ranked Universities' shall be listed in the panel to avoid repetition of foreign examiners.

### Item No. 27

To Consider and approve the Policies to be adopted by the University as required by the NAAC.

SI.No	POLICY NAME
1	Consultancy Policy
2	Information Technology Policy
3	Policy on Systems and Procedures for Maintaining and Utilizing Physical, Academic and Support facilities
4	Policy on Grievance Redressal (Sexual Harassment committee and Anti Ragging Committee)
5	E- Governance Policy
6	Resource Mobilization policy and Strategies for Optimal Utilisation of Resources
7	Green Campus, Environment and Energy Usage Policy
8	Code of Conduct for Students, Teachers and Non-Teaching Staff
9	Research Promotion Policy

Resolved to approve the same.

**Item No. 28**

To consider and approve the report of the Syndicate Sub-Committee in respect of SKT College of Physical Education, Nagapattinam and to get the direction from the Syndicate for further course of action.

As per the recommendation of the Syndicate Sub-Committee it was resolved to withdraw the affiliation to SKT College of Physical Education, Nagaipattinam from the Academic Year 2020-2021 onwards.

**Item No. 29**

To consider and ratify the action taken by this University in connection with grant of an additional course affiliation i.e., B.B.A., Sports Management - 3 Years (Regular) to Selvam College of Physical Education, Namakkal.

Resolved to approve the grant of Affiliation to offer B.B.A., Sports Management - 3 Years (Regular) to Selvam College of Physical Education, Namakkal from the Academic Year 2020-2021 onwards.

**item No. 30**

To consider and adopt the Government orders issued to regulate the Emoluments, Freezing Dearness Allowance, Introducing Certain Measures to Curb Expenditure, Withdrawing Honorarium granted to the Government Employees and also to adopt the Revised Fixation of Daily Wages payable to various categories for the year 2020.

S.No	Government Order No & Date
1	G.O.Ms.No.232, Finance (Allowances) dated 27.04.2020
2	G.O.Ms.No. 248, Finance (CMPC) Department dated 20.05.2020
3	G.O. No. 249, Finance (Budget General-I) Department, dated 21.05.2020
4	G.O.Ms.No.291 Finance (Allowances), dated 08.07.2020
5	Roc. C2 / 7393 / 2018, Proceedings of the District Collector, Chennai District

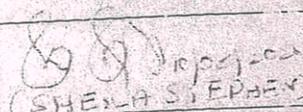
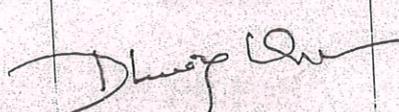
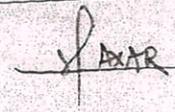
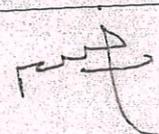
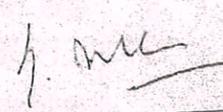
Resolved to adopt the same.

**INFORMATION ITEM**

1. The 12(B) Status was accorded to Tamil Nadu Physical Education and Sports University on 12<sup>th</sup> January 2020.
2. The Distance Education Bureau has granted approval to offer the distance education Program for the Academic Session commencing from Jan 2020.
3. Thiru P.Velayutham Under Secretary to Government, Finance Department has joined as Finance Officer of this University on 31.12.2019 a.n ( vide G.O.(Rt) No.1230 Finance(OP-II)Department, dated: 31.12.2019)

**NOTED.**

In conclusion, it was indicated to place on record the appreciation to the Vice-Chancellor for her sincere efforts taken in getting the 12 (B) Status, the approval from Distance Education Bureau for offering program in Distance Mode, RUSA Grant and the reimbursement of One Time Catch up Grant from University Grants Commission.

S.NO	NAME OF THE MEMBERS	SIGNAURE
1	The Vice-Chancellor, TNPESU	 (SHEILA S. EPERAY)
2	The Principal Secretary to Government, Youth Welfare and Sports Development Department, Secretariat, Chennai - 09	
3	The Principal Secretary to Government, School Education Department, Secretariat, Chennai -9.	
4	The Principal Secretary to Government, Higher Education Department, Secretariat, Chennai -9.	
5	The Joint Secretary to Government on behalf of the Secretary to Government, Law Department, Secretariat, Chennai -9.	
6	The Principal Secretary & Member-Secretary, Sports Development Authority of Tamil Nadu, 116A, Periyar EVR High Road, Nehru Park, Chennai - 084.	
7	Mr. N. Ramachandran, President, Tamil Nadu State Olympic Association, Room No - 78, Jawaharlal Nehru Stadium, Chennai.	

8	Dr. K. Mohanraj, Physical Director and NCC Officer, SSV Higher Secondary School (Govt Aided), 10, Ganapathi Agraharam, Kodumudi, Erode District - 638 151.	
9	M. Thirunavukkarasu, Former District Inspector of Physical Education, 1539C, Phase 2, Sathuvachari, Vellore - 632 009.	
10	The Principal, Mother Terasa College of Physical Education Mettusalai, Illupur (Post), Pudukottai District - 622 102.	A. Shankaravathi
11	The Principal, Meenatchi Physical Education College, Trichy Main Road, M.R. Kalvi Nagar, Thathanur (Po), Udayarpalayam (Tk), Ariyalur District.	P. Sankar
12	Dr. V. Mangaiyarkarasi, Professor, Department of Sports Management and Sports Psychology & Sociology, TNPESU	V. Mangaiyarkarasi
13	Dr. R. Ramakrishnan, Professor and Head, Department of Advanced Sports Training and Sports Technology, TNPESU	R. Ramakrishnan
14	Dr. S. Premkumar, Professor & Head, Department of Sports Management and Sports Psychology & Sociology, TNPESU	S. Premkumar





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# GREEN & ENVIRONMENT AUDIT REPORT

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TAMILNADU PHYSICAL EDUCATION AND  
SPORTS UNIVERSITY  
MELAKOTTAIYUR, CHENNAI-600127



**MARCH 2023**  
QRO CERTIFICATIONS  
CHENNAI

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## Executive Summary

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The rapid urbanization and economic development at local, regional and global level has led to several environmental and ecological crises. On this background it becomes essential to adopt the system of the Green Campus for the institute which will pave way for sustainable development.

TNPESU believes that there is an urgent need to address these fundamental environmental problems and reverse the trends. The purpose of the audit was to ensure that the practices followed in the campus are in accordance with the Green Policy adopted by the institution.

It works on the several facets of 'Green Campus' including Water Conservation, Tree Plantation, Waste Management, Paperless Work, and Alternative Energy. With this in mind, the specific objectives of the audit was to evaluate the adequacy of the management control framework of environment sustainability as well as the degree to which the Departments are in compliance with the applicable regulations, policies and standards. It can make a tremendous impact on student health and learning college operational costs and the environment. The criteria, methods and recommendations used in the audit were based on the identified risks.

## Introduction

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Green audit was initiated with the beginning of 1970s with the motive of inspecting the work conducted within the organizations whose exercises can cause risk to the health of inhabitants and the environment. It is known as the systematic identification, quantification, recording, reporting and analysis of components of environmental diversity.

It is the duty of organizations to carry out the Green Audits of their ongoing processes for various reasons such as; to make sure whether they are performing in accordance with relevant rules and regulations, to improve the procedures and ability of materials, to analyze the potential duties and to determine a way which can lower the cost and add to the revenue.

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Green Audit is assigned to the Criteria 7 of NAAC, National Assessment and Accreditation Council which is a self-governing organization of India that declares the institutions as Grade a, Grade B or Grade C according to the scores assigned at the time of accreditation. The intention of organizing Green Audit is to upgrade the environment condition in and around the institutes, colleges, companies and other organizations. It is carried out with the aid of performing tasks like waste management, energy saving and others to turn into a better environmental friendly institute.

### About the College

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The Tamil Nadu Physical Education and Sports University established by an Act of the Government of Tamil Nadu in 2004, is unique and the first of its kind in India as an affiliatory University, exclusively for Physical Education and Sports Accredited with ISO 9001 – 2015 Certification for Quality Management System It has been recognized as a premier institution of higher learning for job-oriented courses.



The campus is spread over an area of 127 acres of land with Huge built up area .The college offers Under Graduate Courses and Post Graduate and Research courses in Sports and Allied Fields & There are 421 students and 30 teaching faculty in the college which is promising to grow rapidly.

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The College offers job-oriented courses, extra-curricular activities and technologically advanced facilities accessible to the faculty, the students and the support staff. Here, each individual is encouraged to step beyond the confines of academic and administrative disciplines to explore and intervene in the larger interests of the TNPESU community that thrives on participation and the desire to venture into newer vistas.

## **Objectives of the Study**

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The main objective of the green audit is to promote the Environment Management and Conservation in the College Campus. The purpose of the audit is to identify, quantify, describe and prioritize framework of Environment Sustainability in compliance with the applicable regulations, policies and standards.

The main objectives of carrying out Green Audit are:

- To introduce and aware students to real concerns of environment and its Sustainability.
- To secure the environment and cut down the threats posed to human health by analyzing the pattern and extent of resource use of the campus.
- To establish a baseline data to assess future sustainability by avoiding the Interruptions in environment that are more difficult to handle and their corrections requiring high cost.
- To bring out a status report on environmental compliance.

## **Benefits of green audit**

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- Green auditing should become a valuable tool in the management and monitoring of environmental and sustainable development programs of the college.
- Impart environmental education through systematic environmental Management approach and Improving environmental standards
- To create a green campus.
- To enable waste management through reduction of waste generation, solid- waste and water recycling.

## Methodology

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In order to perform green audit, the methodology included different tools such as preparation of questionnaire, physical inspection of the campus, observation and review of the documentation, interviewing key persons and data analysis, measurements and recommendations. The study covered the following areas to summarize the present status of environment management in the campus:

- Water management
- Energy Conservation
- Waste management
- E-waste management
- Green area management
- Environment Monitoring

## Observations and Recommendations

---

### Water Use

The study observed that the main source of water for the institute is received from two bore wells. Water is used for drinking purpose, toilets and gardening. The waste water from the RO water purifier is used for gardening purpose. During the survey, no loss of water is observed, neither by any leakages, or by over flow of water from overhead tanks. The data collected from all the departments is examined and verified. On an average the total use of water in the college is 30,000 L/day, which include 23,000 L/day for domestic, 5,000 L/day for gardening purposes and 2,000 L/day for drinking purpose.

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*Pond inside the Campus*



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Rain water harvesting units are also functional for recharging ground water level. The rain water collected from all floors of the building and Harvested in the recharge well available inside the campus .



*Rain Water Harvesting Implemented inside the campus*



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**Recommendations**

- There is a need for monitoring and controlling overflow and periodically supervision drills should be arranged.
- Minimize wastage of water and use of electricity during the reverse osmosis process and ensure that the equipment used are regularly serviced and in good condition.
- The cleaning products used by staff should have a minimal detrimental impact on the environment. They should be biodegradable and non-toxic.
- Ensure that all cleaning products used by college staff have a minimal detrimental impact on the environment, i.e. they are biodegradable and non-toxic, even where this exceeds the Control of Substances Hazardous to Health (COSHH) regulations.
- Gardens should be watered by using drip/sprinkler irrigation system to minimize water use.

## **Waste Management**

This indicator addresses waste production and disposal of different wastes like paper, food, plastic, biodegradable, construction, 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. Unscientific handling of solid waste can create threats to everyone. The survey focused on volume, type and current management practice of solid waste generated in the campus.

### **Observations**

#### **Liquid waste management**

They have a **Mini RO plant** in all the blocks which is easily access to all the students & staffs to provide water for drinking and Cooking Purpose in Mess & Canteen



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*Purified Water in all the Blocks*

**Solid waste management**

Waste generated from tree droppings and lawn management is major solid waste generated in the campus. Separate dustbins are provided for Bio-degradable and Plastic waste in order to segregate them at the source itself. Single sided used papers are reused for writing and printing in all the departments to minimize the usage of papers. Important and confidential reports/ papers are sent for pulping and recycling after completion of their preservation period.

Chemical waste generated in laboratories that are potentially hazardous are segregated. Very less plastic waste (0.1Kg/day) is generated by some departments, office, garden etc Metal waste and wooden waste is stored and sent to authorized scrap agents for further processing. Glass bottles are reused in the laboratories.

The college had Placed separate bins to collect biodegradable and non-biodegradable waste generated in the campus.

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*Separate Bins for Degradable & Non Bio Degradable*



*Plastic Free Campus*

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### **TAMILNADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY**

#### **Recommendations**

- The amount of waste generated from classrooms and staff rooms can be minimized.
- Full use of all recycling facilities provided by City Municipality and private suppliers can be utilized for waste disposal.
- Sufficient, accessible and well-publicized collection points can be made available for recyclable waste, with responsibility for recycling clearly allocated.
- If Biomedical Waste Accumulated Ensure to Proper Government Authorized Vendor to collect it.
- Solid Waste Management awareness Training Recommended for all the works one who are Involved in Gardening & Sweeping Work

#### **E-waste Management**

E-waste is a consumer and business electronic equipment that is near or at the end of its useful life. This waste makes up about 5% of all municipal solid waste worldwide. It is hazardous than other waste because electronic components contain cadmium, lead, mercury, and Polychlorinated biphenyls (PCBs) that can damage human health and the environment.

#### **Observations**

E-waste generated in the campus is of minimal quantity. It is being effectively managed, keeping in mind the environmental hazards that may arise if not disposed properly.

The cartridges of laser printers are refilled outside the college campus. Administration Awareness programmes are being conducted regarding E-waste Management in various departments. The E- wastes and defective items from computer laboratories are being stored properly.

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The dismantled hardware of personal computers are used in PC trouble shooting lab. This is put to use to conduct practical courses for Students and The dismantled electronic spare parts are immediately sold for reuse. The minimal amount of e-waste that is generated after reusing is sent to recycler at specific intervals.



*E-Waste is Properly Collected in the campus*



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*E-Waste is Properly Collected and Disposed Frequently*

**Recommendations**

- Use reusable resources and containers and avoid unnecessary packaging wherever possible.
- The management should take an initiative to purchase recycled resources when they are available.
- Recycle or safely dispose of white goods, computers and electrical appliances.
- The Management engage proper Vendor to dispose the E Waste frequently.

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#### **Green Area Management**

This includes the plants, greenery and sustainability of the campus to ensure that the buildings conform to green standards. This also helps in ensuring that the Environmental Policy enacted, enforced and reviewed using various environmental awareness programmes.

#### **Observations**

Campus is located in the vicinity of many trees (species) to maintain the bio-diversity. Various tree plantation programs are being organized at college campus and surrounding villages through NSS (National Service Scheme) unit. This program helps in encouraging eco-friendly environment which provides pure oxygen within the institute and awareness among villagers. The plantation program includes various type of indigenous species of ornamental and medicinal wild plant species.

The college cultivates vegetables for its own use through organic farming initiatives.



*Green Area Management Inside The campus*

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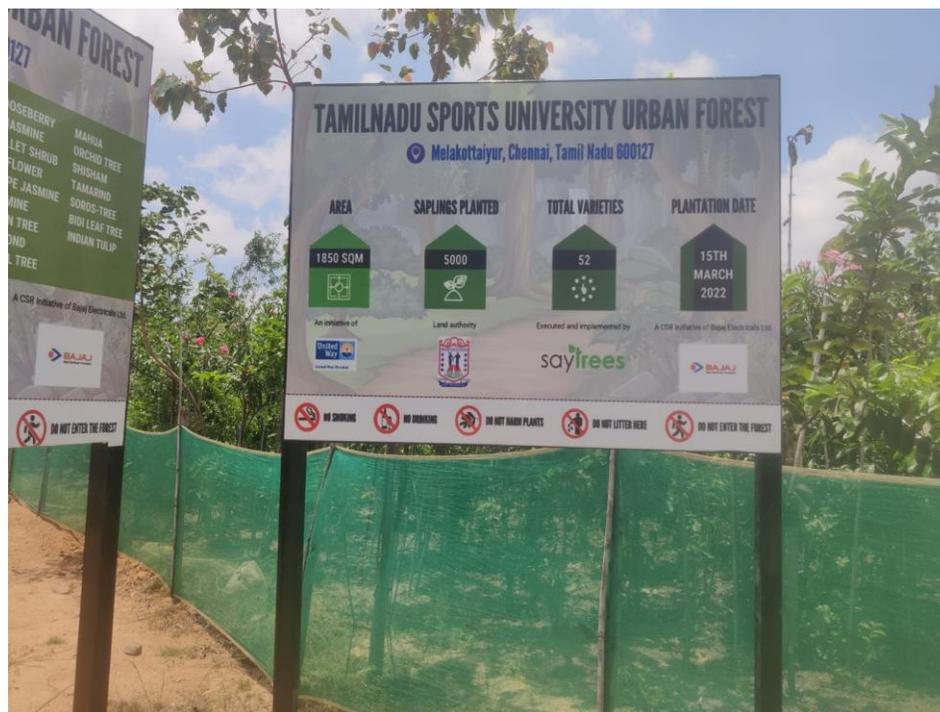


*Green Belt Across The campus*



## **MIYAWAKI FOREST**

A Miyawaki forest has been planted in the north-east corner of the campus. Miyawaki is a technique pioneered by the Japanese botanist, Akira Miyawaki that helps build dense, native forests. The approach ensures plants to grow 10 times faster and the resulting plantation will be 30 times denser than usual. It involves planting dozens of native species in the same area, and becomes maintenance-free after the first three years.



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*Miyawaki Forest Inside The campus*



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*World Environment Day Celebrated Inside The campus*



### **Sanitary Napkin Incinerator**

To educate and create awareness of use of Sanitary Napkins and provide easy access to Sanitary Napkins by installation Simple Vending Machines in our girls toilet so that Girls/Women get habituated to use this Sanitary Napkins for their better health care. Secondly, to solve the problem of sanitary napkin disposal by installing incinerators which shall reduce spread of infection due to unhygienic disposal of sanitary napkins, reduce environmental pollution due to non-biodegradable sanitary napkins and reduce clogging of public drainage system due to spongy nature of napkins.



***Sanitary Napkin Incinerator inside The Campus***

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**Recommendations**

- Review periodically the list of trees planted in the garden, allot numbers to the trees and keep records. Assign scientific names to the trees.
- Promote environmental awareness as a part of course work in various curricular areas, independent research projects, and community service.
- Create awareness of environmental sustainability and take actions to ensure environmental sustainability.
- Establish a College Environmental Committee that will hold responsibility for the enactment, enforcement and review of the Environmental Policy. The
- Environmental Committee shall be the source of advice and guidance to staff and students on how to implement this Policy.
- Ensure that an audit is conducted annually and action is taken on the basis of audit report, recommendation and findings.
- Indoor plantation to inculcate interest in students, Bonsai can be planted in corridor to bond a relation with nature.
- Green library should be established.

### Sanitation and Hygiene

Unsafe operation of educational institution can lead to transmission of diseases. It can cause negative impacts to students, their families, institute reputation and overall development. Therefore, good health and sanitation practices are very important especially considering the ongoing Covid'19 pandemic.

The provision of safe water and sanitation facilities is a first step towards a healthy physical learning environment. However, the mere provision of facilities does not make them sustainable or ensure the desired impact. Hygiene practices are employed as preventative measures to reduce the incidence and spreading of disease. Hygiene education aims to promote those practices that will help prevent water and sanitation-related diseases as well as inculcating healthy behaviours in the future generation of adults. Therefore, the combination of facilities, correct behavioural practices and education are meant to have a positive impact on the health and hygiene conditions of the community as a whole, both now and in the future.

**1. Drinking water:** Clean water as per drinking water standards have been ensured to students through Reverse Osmosis plant. RO plants of different capacity (6 nos.) have been installed.

**2. Water Supply:** Adequate and clean water supply through Public Water Supply and borewell system has been ensured.

**3. Sanitation:** Adequate number of urinals/toilets have been operational in main Campus, Hostel, and Other areas. No open and flowing latrines were noticed. Sanitation facilities are found to be proper and adequate.

**4. Waste Management:** Waste management bins are placed at each block to store and dispose through municipality. During audit, no unattended waste dumping was noticed.

**5. Awareness:** Hygiene awareness posters especially related to Covid'19 is displayed at various locations in the campus. Overall, campus follows very good sanitation practices.

## Green Initiatives and Best Practices

The list of few important green initiatives and good environmental practices adopted by the campus is given below.

- Rainwater harvesting pits are constructed at appropriate locations to improve local ground water table.
- Installed solar Plant to meet partial power requirement of the Campus
- Replaced 60% of CFL lights with LED lights as part of energy conservation measures. Also, some of the old fans were replaced with energy efficient super fans.
- Engagement of authorized paper recycling vendor to manage bulk paper waste generated.
- Establishment of Organic Cultivation
- Celebration Of World Environment Day and creating Environment Awareness to all Students & Staffs
- Restricted movement of vehicles inside the campus. Parking space inside campus is provided for vehicles, however, no movement of vehicles inside campus is encouraged.
- Awareness posters on resource conservation, good sanitation and hygiene drive.
- Strictly follow the Plastic Free zone inside the campus is Encouraged.

## Environmental Monitoring

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As part of green audit of campus, the Green Audit Assessment Team has carried out the environmental monitoring of campus. This includes Illumination, Noise level, ventilation and indoor Air quality of the class rooms. It was observed that Illumination and Ventilation is adequate considering natural light and air velocity present. Noise level in the campus is well below the limit.

The following surveys were conducted:

1. Ambient air quality by NABL approved air sampler
2. Lux monitoring
3. Noise monitoring
4. Co2 Monitoring

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#### ***Ambient Air Quality Monitoring***

Ambient air quality monitoring can help in providing a strategic solution towards air purification and help lead a safer life. Also, air quality monitoring in the college campus not only develops trust among the parents but ensures that the administration cares about their Students and Staff.



#### ***Ambient Air Quality Monitoring Inside the Campus***



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#### **Lux & Noise Monitoring**

Illumination is one of the most important environmental factors in the classroom. Many Doctors have discovered that lighting settings have significant impact on students' performance. So Lux monitoring can help in providing a Comfort Vision Environment to Students.

When assessing noise exposure in campus environments, it can be difficult to determine whether the level of sound has reached a point where it interferes with student learning and staff productivity, or worse, becomes a threat to their health and well-being.



#### ***Lux & Noise Monitoring Inside The Campus***



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**CO2 Monitoring**

CO2 levels can provide a direct indication of the CFM per person ventilation rate in College classrooms and can provide an ongoing indication if code required ventilation rates are being maintained. It is important to Maintain that CO2 levels a contaminant or pollutant at the levels normally measured in buildings (400 to 2000 ppm). Measurement Based On ASHRAE Standards



***Co2 Monitoring Inside The Campus***

## Conclusion

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Green audit is a systematic approach to understand the existing environmental practices and identify areas of improvement for attaining an eco-friendly approach to the sustainable development of the college. The report is prepared based on the site visit observations and information provided by the campus.

Overall, TNPESU has taken many environmentally friendly approaches and campaigns in the area of energy, water, solid waste, sanitation and green cover, which is highly commendable.

.The environmental awareness initiatives taken by the management are substantial. The installation of water recycling plants, paperless work system and Solar & Biogas Plant practices are remarkable. Besides, environmental awareness programmes initiated by the administration prove the campus is going green. Few recommendations are added for waste management and waste reduction using alternate eco-friendly and scientific techniques. This may lead to the prosperous future in context of Green Campus and thus aid in a sustainable environment and community development.

## **Acknowledgement**

---

We are grateful to the management and committee members of Tamilnadu Physical Education and Sports University to award this prestigious project on green auditing. Further we sincerely thank the college staff for providing us the necessary facilities and co-operation during the audit. This ample co-operation helped us a lot in making this audit possible and successful.

**FOR IGNITE ENGINEERING**

**ER.P.VIVEK M.E**  
**LEAD GREEN ASSOCIATE**  
**CHARTERED ENGINEER**

**FOR IGNITE ENGINEERING**

**ER.S.KARTHIGA M.E(Ph.d)**  
**LEAD AUDITOR-ENVIRONMENT**

# ENERGY AUDIT REPORT



**TAMILNADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY**

**March 2023**

*Report by*

**QRO CERTIFICATIONS**

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## **1. ABOUT THE COLLEGE**

The Tamil Nadu Physical Education and Sports University established by an Act of the Government of Tamil Nadu in 2004, is unique and the first of its kind in India as an affiliatory University, exclusively for Physical Education and Sports. After obtaining the accent from his Excellency the president of India on 5th August 2005, the said act came into force with effect from 15th September 2005. Accredited with ISO 9001 – 2015 Certification for Quality Management System It has been recognized as a premier institution of higher learning for job-oriented courses The College maintains high standards of excellence in the academic sphere and in the physical amenities and facilities intended to implement the educational programme. The College endeavours to enroll students who hold high standards of performance, discipline and achievement.

### **VISION**

“To engage in relentless pursuit of Excellence in the promotion and development of Physical Education and Sports through innovative programmes in teaching, coaching, research and outreach activities and evolve a holistic approach to the betterment of human resources through a harmonious blend of body, mind and spirit" “

### **MISSION**

1. To create an ideal academic environment for Learning, Scholarship, Professionalism, and Collaboration that fosters Excellence in active student learning and professional growth.
2. To design and introduce innovative, integrated, inter-disciplinary curriculum in Physical Education and various Sports and games and allied areas and provide Leadership to the Profession.
3. To offer unique graduate, Post-graduate and research Programmes in Physical Education, Sports and allied fields.
4. To produce competent health conscious Physical Education teachers at various levels, who will be fully equipped to impart instruction in Physical Education and undertake physical activity programmes for children and youth.
5. To develop High-Tech research facilities and contribute to the body to knowledge through scholarly work and publications, and disseminate the findings to the professionals, faculty and students.

## **2. INTRODUCTION**

The Energy Conservation Act, 2001 defines Energy Audit as "the verification, monitoring, and analysis of the use of energy including submission of technical report containing recommendations for improving energy efficiency with cost-benefit analysis and an action plan to reduce energy consumption".

It is an analysis of energy flows for energy conservation and to find energy losses. It is a process of collection of detailed data related to energy usage and comparison of collected results. It is a process by which we can reduce the amount of energy input to the system without a negative impact on the output.

It includes Inspection, Survey and Analysis of energy flows for energy conservation in a building, a process, or a system to reduce the amount of energy input into the system without negatively affecting the output(s) plugged. It is the quickest, cheapest, and cleanest way to reduce energy consumption.

An energy audit, sometimes referred to as an energy survey or an energy inventory, is an examination of the total energy used in a particular property. The analysis is designed to provide a relatively quick and simple method of determining not only how much energy is being consumed but where and when.

The energy audit will also identify deficiencies in operating procedures and in physical facilities. Once these deficiencies have been identified, it will be apparent where to concentrate efforts to save energy. The energy audit is the beginning of and the basis for an effective energy-management programme.

Increasingly in the last several decades, the demand to lower increasingly expensive energy costs and move towards a sustainable future has made energy audits greatly important.

### 3. OBJECTIVES OF ENERGY AUDIT



## 4. BENEFITS OF ENERGY AUDIT

- Energy audits will evaluate your facility “as a whole”, their goal is not to evaluate single measures but to consider a wide range of available alternatives (Electrical, Mechanical, Envelope and Water).
- It will analyse your historical energy use and find potential issues using statistical methods.
- The audit will not only inform you of opportunities but provide you with financial analysis. This will enable prioritization based on financial benefit and return on investment.
- Provide you with solid, easy-to-understand technical information regarding the proposed energy conservation measures
- Provide you with benchmark information to help you understand your energy use performance compared to others in your field and area.
- Provide you with an emissions analysis to help you understand the benefits of your decisions from an environmental standpoint.
- Understand where energy is used, and which areas are worth focusing on the most (energy hogs).
- The cost-benefit analysis of the audit report would help decision-makers prioritize opportunities and evaluate them as investments.
- These indicators would include, rate of return, net present value, cash flow analysis, and payback.

## **5. STAGES OF ENERGY AUDIT**

A structured methodology to carry out an energy audit is necessary for efficient working. An initial study of the site should always be carried out, as the planning of the procedures necessary for an audit is most important.

The stages of an energy audit are:

- Phase – I Pre-audit phase
- Phase – II Audit phase
- Phase – III Post-audit phase

### **Phase – I Pre-audit phase**

An initial site visit may take one day and gives the Energy Auditor/Engineer an opportunity to meet the personnel concerned, familiarize him with the site, and assess the procedures necessary to carry out the energy audit.

During the initial site visit, the Energy Auditor/Engineer should carry out the following actions:-

- Discuss with the site's senior management the aims of the energy audit.
- Discuss economic guidelines associated with the recommendations of the audit.
- Analyse the major energy consumption data with the relevant personnel.
- Obtain site drawings where available - building layout, steam distribution, compressed air distribution, electricity distribution etc. the site accompanied by engineering/production.

The main aims of this visit are: -

- To finalise the Energy Audit team
- To identify the main energy-consuming areas/plant items to be surveyed during the audit.
- To identify any existing instrumentation/ additional metering required.
- To decide whether any meters will have to be installed prior to the audit eg. kWh, steam, oil, or gas meters.
- To identify the instrumentation required for carrying out the audit.
- To plan with time frame
- To collect macro data on plant energy resources, major energy consuming centers
- To create awareness through meetings/ programme

### **Phase – II Audit phase**

The information to be collected during this audit phase includes:

- Energy consumption by type of energy, by department, by major items of process equipment, by end-use
- Material balance data (raw materials, intermediate and final products, recycled materials, use of scrap or waste products, production of by-products for re-use in other industries, etc.)
- Energy cost and tariff data
- Process and material flow diagrams
- Generation and distribution of site services (eg.compressed air, steam).
- Sources of energy supply (e.g. electricity from the grid or self-generation)
- Potential for fuel substitution, process modifications, and the use of co-generation systems (combined heat and power generation).
- Energy Management procedures and energy awareness training programs within the establishment.

### **Phase – III Post-audit phase**

- Plan and schedule an action plan for implementing the corrective measures.
- Follow-up and periodic review.

## **6. ENERGY MANAGEMENT**

This indicator addresses energy consumption, energy sources, energy monitoring, lighting, appliance, natural gas, and vehicles. Energy use is clearly an important aspect of campus sustainability and thus requires no explanation for its inclusion in the assessment. The study carried out also analyzed the use of alternate energy resources that are eco-friendly.

## **7. OBSERVATIONS**

The source of energy for all the buildings within the campus is electricity only. The institution consumes about **1800kW/Month**. However, **20KW** of the daily electricity requirement is supplied from **solar energy**.

The campus contains Lights and fans in use. The entire campus including common facility centers are equipped with LED lamps and LED tube lights, except at few locations. Besides this, photovoltaic cells are also installed in the campus as an alternate renewable source of energy.

Computers are set to automatic power saving mode when not in use. Solar water heaters are installed in hostel buildings and staff quarters as to promote renewable energy. Also, campus administration runs switch-off drill on regular basis. Equipment like Computers is used in power saving mode.

## 7.1 Solar panels

Solar panel systems are extremely durable and require little to no maintenance over their productive lifetime, which can span 25 years or more. Solar systems are also extremely easy to maintain. The main maintenance that these panels require is an occasional dusting to remove dirt, leaves, or any other fragments. Each kilowatt-hour (kWh) of solar that is generated will substantially reduce greenhouse gas emissions like CO<sub>2</sub>, as well as other dangerous pollutants such as sulfur oxides, nitrogen oxides, and particulate matter.



*Solar panels in the campus*





*Photo voltaic cells control unit*

## **7.2 Diesel generator**

The college campus is Equipped With Diesel Generators for power backup. The generators were tested for their efficiency, and physical and operating conditions and found to be fit.



*Diesel Generator Inside the Campus*

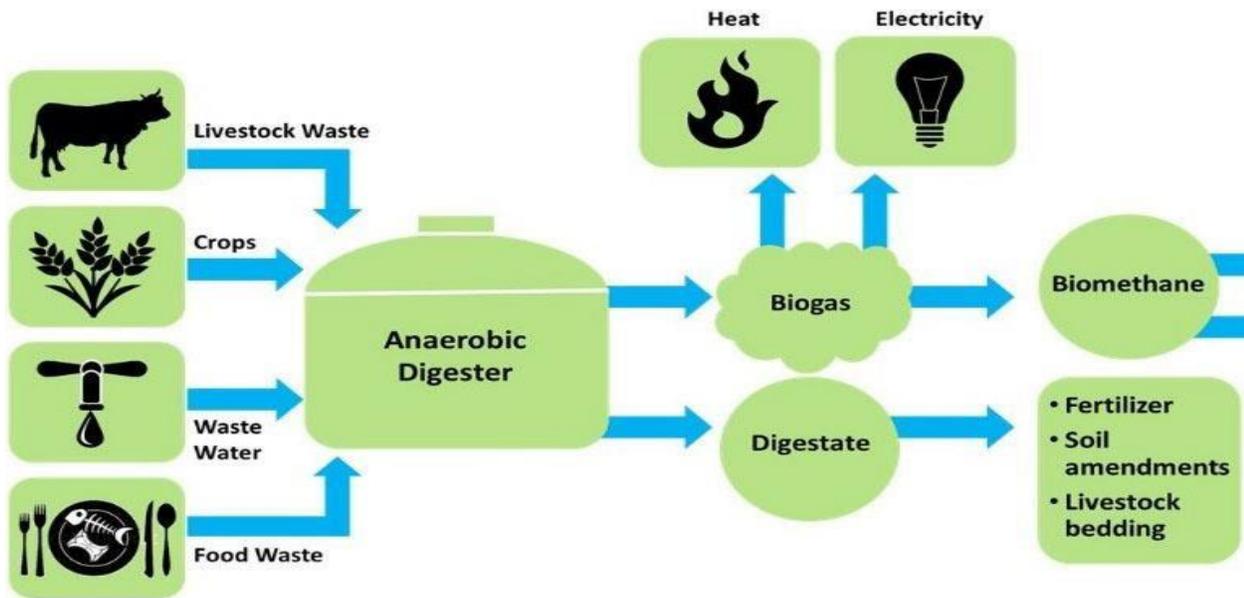
### **7.3 Biogas Plant**

In TNPESU, kitchen waste is used to generate thermal energy for cooking and heating. The biogas produced from food waste, decomposable organic material, and kitchen waste, consisting of methane and a little amount of carbon dioxide is an alternative fuel for cooking gas (LPG).

Kitchen waste is processed and moistened to produce a suspension that subsequently undergoes a fermentation process. Fermentation produces biogas – a valuable energy source – that is desulphurised by biological means. Also, the waste materials can be disposed of efficiently without any odour or flies and the digested slurry from the bio-gas unit can be used as organic manure in the garden.

The major components of the bio-gas plant are a digester tank, an inlet for feeding the kitchen waste, a gas holder tank, an outlet for the digested slurry, and the gas delivery system for taking out and utilizing the produced gas.

The College campus is equipped With 1m<sup>3</sup> Capacity Biogas Plant to promote the use of alternate energy. Eco-friendly technology allows to produce renewable natural gas in the form of biomethane. The facility processes about 10kg of kitchen waste every day. The major waste is organic waste from College hostels, as well as leftover food from campus canteens and expired food.



*Biogas production*



*Biogas Plant Installed inside the Campus*

## **8. Carbon Foot Printing**

Carbon Footprint refers to the potential climatic impact (Global Warming) of the Greenhouse Gases (GHG) emitted directly or indirectly due to an organization's activities. A Carbon Footprint Disclosure of any educational institution is very important to understand such that its key emission sources can be identified and necessary mitigation measures can be adopted for carbon reduction. In today's date, very few colleges disclose their carbon emissions. TNPESU has taken an initiative to compute its carbon footprint and set a benchmark for other Colleges/Universities. The college has adopted a carbon reduction strategy to undertake this project.

### **8.1 Objectives Of Carbon Foot Printing**

- Identify key emission sources of GHG at the campus
- Compute Scopes of emissions for operations carried out at TNPESU Campus
- Analyze the results and provide cost effective & efficient measures for reducing the GHG emissions.

## 8.2 CARBON FOOT SURVEY & ESTIMATION INSIDE THE CAMPUS

Sl.No	Mode of Transport	No of Vehicles	Travellers	To & Fro Km/Per
1	Two Wheelers (Single/Shared)	15	20	20
2	Own Car (Single/Shared)	25	20	15
3	Mini Bus / Private Van	3	200	30
4	Public Transportation / College Bus	-	3000	30

Sl.No	Description	Emission Rate	Annual Consumption/Quantity	Eqt.Co <sub>2</sub> Tonnes/Year
I	Electrical Energy consumption	0.80 kg/kwh	12884kwh	103.91
	Diesel consumption	2.653 kg of Co <sub>2</sub> /litre	6000litres	15.92
	LPG	2.983 kg of Co <sub>2</sub> /kg	1786kg	5.33
	Fire Wood	1.65-1.80 kg of Co <sub>2</sub> /kg	28 T	46.2
II	Food Waste	1.9 kg of Co <sub>2</sub> /kg	3.75 T	7.125
	Paper Waste	1.725 kg of Co <sub>2</sub> /kg	5.85 T	10.09
	Water Waste	0.298 kg of Co <sub>2</sub> /kl	1760kl	0.524
	Plastic Waste	6 kg of Co <sub>2</sub> /kg	200 kg	1.2
	Glass/Other	0.77 kg of Co <sub>2</sub> /kg	10	0.065
	Sanitary Napkin	0.5 kg of Co <sub>2</sub> /kg	2275 kg	1.1375
III	Two Wheelers	2.38 kg of Co <sub>2</sub> /L	10000*250/50=50000	103
	Own Car	2.653 kg of Co <sub>2</sub> /L	800*250/20=10000	26.52
	Mini Bus / Van	2.653 kg of Co <sub>2</sub> /L	90*250/8=2812	7.46
IV	Events	Approx	500*8*1.5=6000kg	15.91
<b>Total</b>				<b>155.836</b>

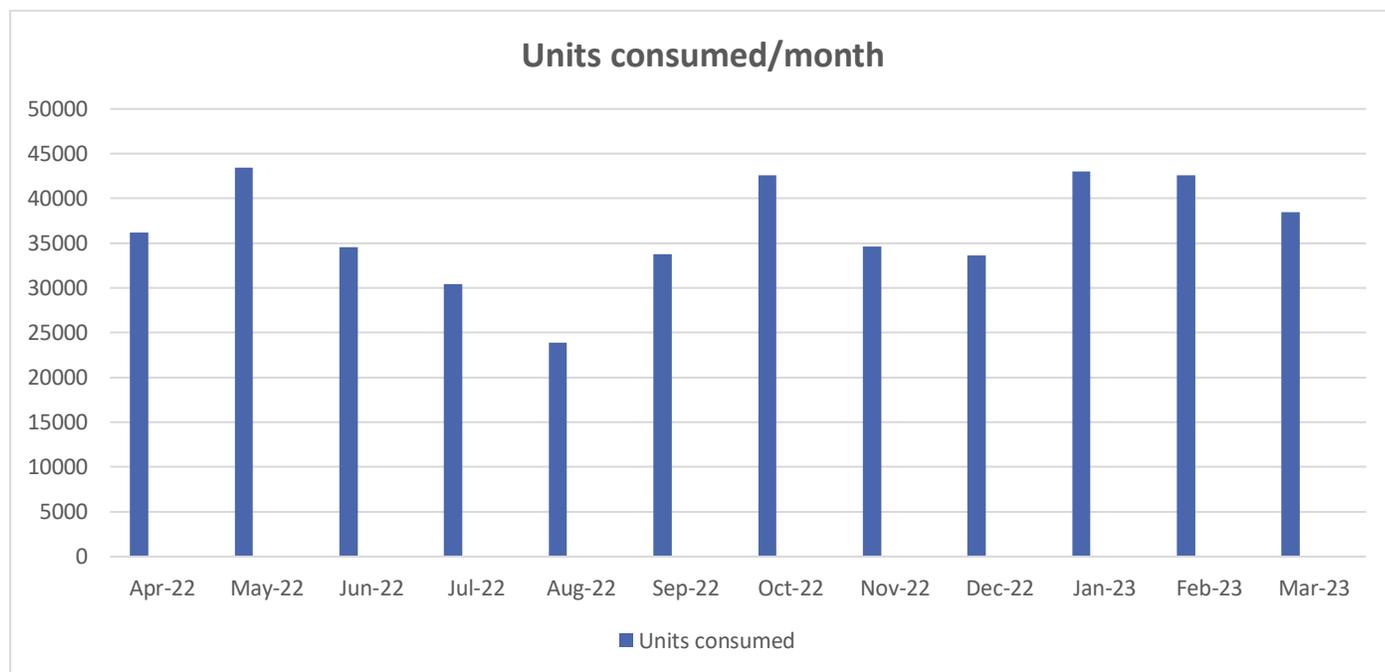
## **Recommendations**

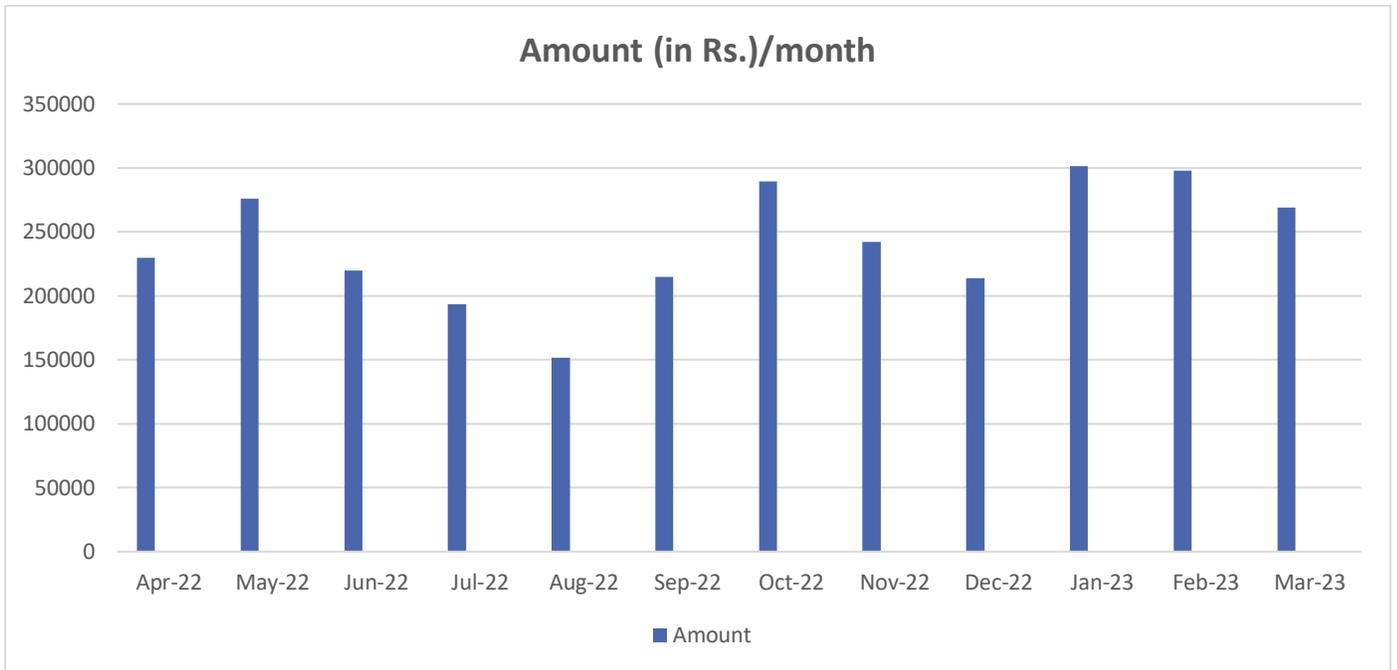
- Regular maintenance of the air conditioners and refrigerators should be done and records should be maintained
- Reheating of food can be done on induction / microwave minimizing the use of LPG.
- sub-metering system for electricity usage may help to identify high energy consumption areas.
- The systems (computers, laptops, air conditioners, refrigerators etc.) should be procured for the college considering the latest energy efficient technologies in the markets. (For ex All in One Units etc.)
- Occupancy sensors should be installed in the classrooms and offices.

## 9. POWER CONSUMPTION ANALYSIS

The power consumed by the college for a year on a monthly basis is depicted below:

S.No	Month/year	Units consumed (kw/h)	Bill amount
1	03/2023	38430	269010
2	02/2023	42569	297983
3	01/2023	43037	301259
4	12/2022	33615	213988
5	11/2022	34604	242228
6	10/2022	42557	289600
7	09/2022	33797	214610
8	08/2022	23879	151631
9	07/2022	30425	193198
10	06/2022	34580	219583
11	05/2022	43441	275850
12	04/2022	36157	229596





## 9.1 POWER QUALITY AUDIT

A power quality audit checks the reliability, efficiency, and safety of an organization's electrical system. The audit verifies the following aspects:

**The continuity of the power supply:** It checks if the power in the network is available on a regular basis and can ensure the efficient operation of the equipment.

**The quality of the voltage:** It checks if there are no low or high-frequency disturbances in the network capable of damaging the system components.

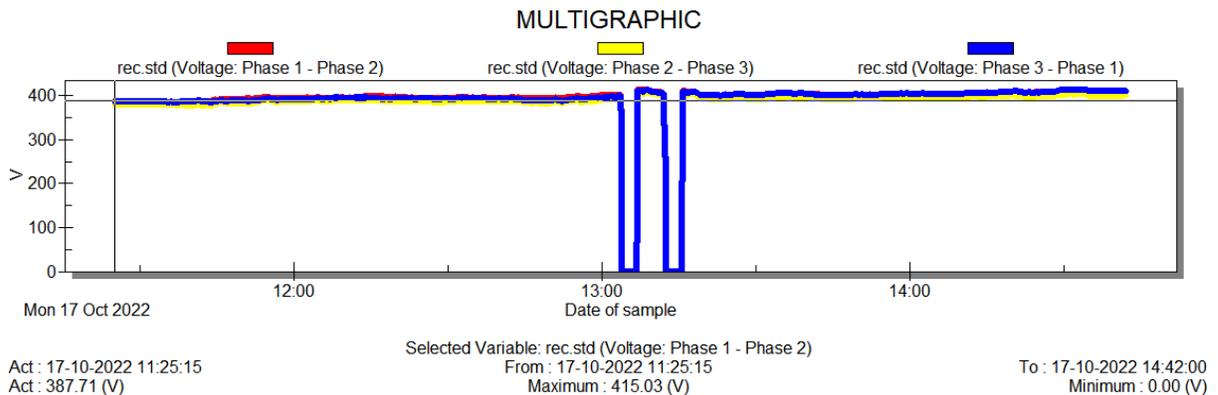
## Benefits Of Power Quality Analysis

- Assist in preventative and predictive maintenance
- Identify source and frequency of events
- Establish precise location and timing of events
- Develop maintenance schedules
- Monitor and trend conditions
- Analyse harmonics, Flicker, Transients frequency variation, voltage variations (sag & swell).
- Ensure equipment performance
- Assess the sensitivity of process equipment to disturbances
- Evaluate performance against specifications

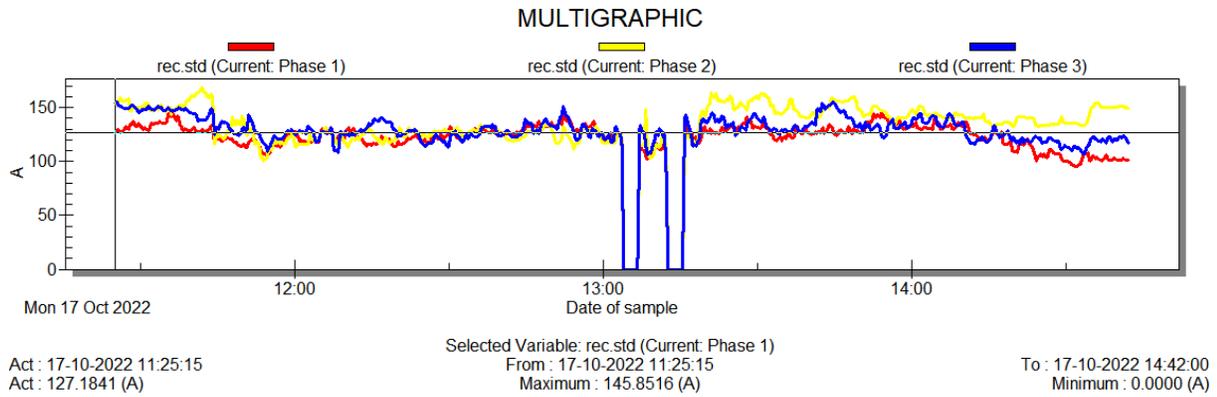
## Observations

### TRANSFORMER LT SIDE

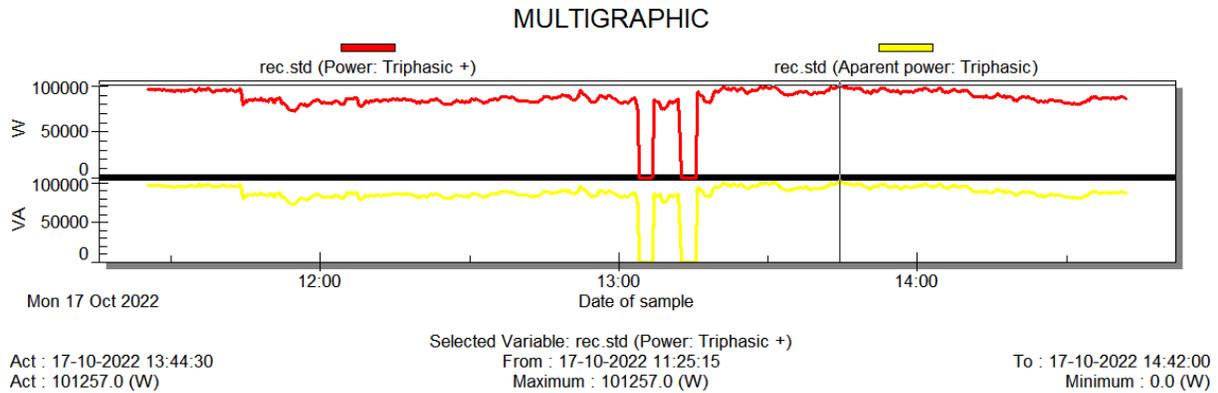
### Voltage profile



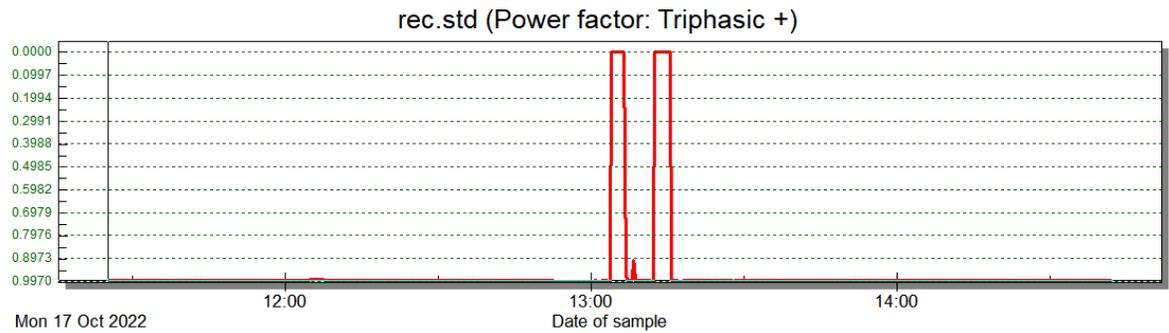
## Current profile



## Load Profile



## Power Factor Profile

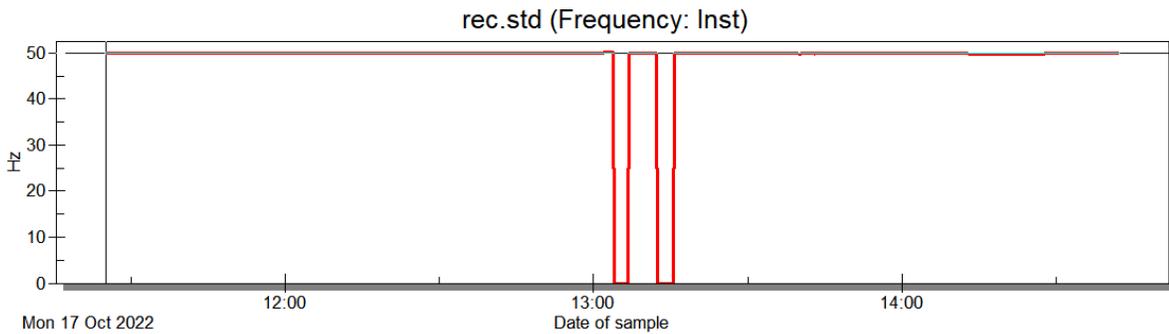


Act : 17-10-2022 11:25:15  
Act : 0.992

From : 17-10-2022 11:25:15  
Maximum : 0.000

To : 17-10-2022 14:42:00  
Minimum : 0.997

## Frequency

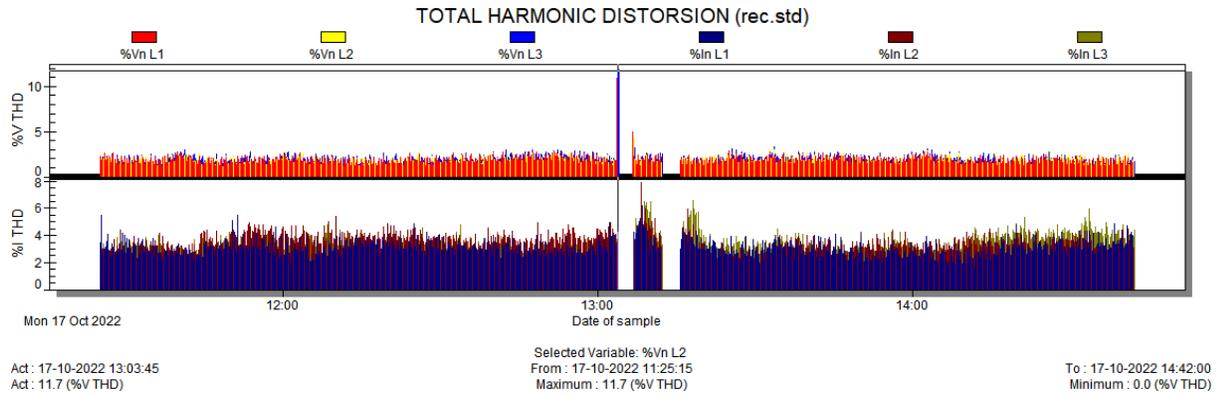


Act : 17-10-2022 11:25:15  
Act : 49.96 (Hz)

From : 17-10-2022 11:25:15  
Maximum : 50.13 (Hz)

To : 17-10-2022 14:42:00  
Minimum : 0.00 (Hz)

## Total Harmonic Distortion



## Individual Harmonics

<b>Individual Harmonics</b>							
As per IEEE-519, 2014, permissible % of individual voltage harmonics is 5 % Current harmonics for <11 order is 10 %	Order of Harmonics	Voltage			Current		
		R	Y	B	R	Y	B
	3	0.21	0.36	0.41	2.18	3.16	2.04
	5	0.38	0.84	1.01	0.57	0.74	1.6
	7	1.45	1.2	1.23	0.47	1.17	1.44
	9	0.22	0.23	0.42	0.67	0.66	0.56
	11	0.34	0.27	0.55	0.47	0.59	0.29

### Summary:

S. No	Description	Remarks	
1	Location	INCOMING MAIN POWER HOUSE	
2	Voltage	Incoming voltage is varying from 379.3 V to 387.7 V.	
3	Load Current, A	Varying from 101.3A A to 127.18 A.	
4	Power, Kw	Varying from 98.45 kW to 101.257 kW.	
5	Power, kVA	Varying from 98.23 kVA to 101.885 kVA.	
6	THD Voltage (%)	R	1.8
		Y	2.2
		B	2.6
7	THD current (%)	R	2.8
		Y	3.8
		B	2.8
8	Power Factor	Varying from -0.99 to 0.99	
9	Frequency, Hz	Varying from 49.8 Hz to 50.13 Hz.	
10	Any Interruption observed. if yes details	Yes. Power cut From 13:04:15 to 13:06:45 and 13:12:30 to 13:15:30	
11	Voltage Sags	No	
12	Over voltage	No	
13	Voltage unbalance, %	Varying from 0.5 % to 1.4 %.	
14	Current unbalance, %	Varying from 0.1 % to 12.8 %.	

### Remarks:

- Current unbalance is slightly higher than acceptable level.

## **11. RECOMMENDATIONS**

- The management should support more of renewable and carbon-neutral electricity options in any energy- purchasing consortium, with the aim of supplying all college properties with electricity that can be attributed to renewable and carbon-neutral sources.
- The campus administration should run switch-off drills on regular basis.
- 5-star rated Air Conditioners, Fans and CFLs should be used.

## **12. CONCLUSION**

### **Energy Rating**

After the complete survey and analysis of the campus as per ISO 50001:2018 energy management system standards, we rate the campus **Score 4/5**.

Energy Conservation is the wave of the future. The world is quickly moving towards Energy sustainability. An energy-efficient organization is a step toward the direction of renewable energy, environmental protection, and sustainable living. Thus, concluded that by energy auditing we identify cost-effective ways to improve the comfort and efficiency of buildings.

### **13. ACKNOWLEDGEMENT**

We are grateful to the management and committee members of Tamilnadu Physical Education and Sports University to award this prestigious project on energy auditing. Further, we sincerely thank the college staff for providing us with the necessary facilities and cooperation during the audit. This ample co-operation helped us a lot in making this audit possible and successful.

#### **FOR QRO CERTIFICATIONS**

**ER.P.VIVEK M.E**

**CHARTERED ENGINEER &COMPETENT PERSON**

## AMBIENT AIR MONITORING

<b>Report No</b>	IES-NO-AR-72-155-2023	<b>Report Date:</b>	30.03.2023
<b>Customer Name &amp; Address</b>  M/s. TAMILNADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY CHENNAI	<b>Sample Reference No:</b>	IES-NO-AR-72-155-2023	
	<b>Sample Description:</b>	Ambient Air	
	<b>Sample Drawn by:</b>	Laboratory	
	<b>Sample Collected Date:</b>	28.03.2023	
	<b>Qty of sample Received:</b>	Filter Paper(2nos) & Approx 25ml Solution(4nos)	
	<b>Sample Received On:</b>	28.03.2023	
	<b>Test Commenced On:</b>	28.03.2023	
	<b>Test Completed On:</b>	30.03.2023	
	<b>Sampling Method:</b>	IES-SOP-ARS-01 to 11	
	<b>Sample Mark:</b>	Near to Admin Block	

S.No	Name of the Test	Test Method	Units	Results	Max. Annual Average Limits Of NAAQs
1.	Ammonia (as NH <sub>3</sub> )	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<5.0	100
2.	Arsenic (as As)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<0.1	6.0
3.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	<0.5	5.0
4.	Benza (α) Pyrene(as C <sub>20</sub> H <sub>12</sub> )	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<0.5	1.0
5.	Carbon Monoxide (as CO)	Instruments Manual Based SOP No.EL-SOP-ARS-17	µg/m <sup>3</sup>	<1.2	2.0
6.	Lead (as Pb)	IS 5182 (Part 22): 2004 (Reaffirmed 2014) Clause No.5	µg/m <sup>3</sup>	<0.5	0.5
7.	Nickel (as Nil)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<1.0	20
8.	Oxidants (as Ozone O <sub>3</sub> )	IS 5182 (Part IX)- 19747 (Reaffirmed 2014)	µg/m <sup>3</sup>	<10.0	100
9.	Oxidants of Nitrogen (as Ozone NO <sub>2</sub> )	IS 5182 (Part 6): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	18.1	40
10.	Particulate Matter (as PM <sub>10</sub> )	IS 5182 (Part 23): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	32.1	60
11.	Particulate Matter (as PM <sub>2.5</sub> )	EPA 40 CFR Part 50- Appendix L	µg/m <sup>3</sup>	25.1	40
12.	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2): 2001 (Reaffirmed 2017)	µg/m <sup>3</sup>	9.3	50

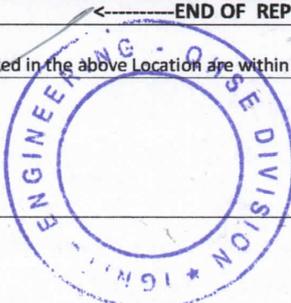
END OF REPORT

**NOTES:**

The Concentrations of the parameters tested in the above Location are within the prescribed annual average limits of NAAQs tolerance limits.

Report Confirmed by

*K.*



FOR IGNITE ENVIRONMENTAL SERVICES

Authorized Signatory



## AMBIENT AIR MONITORING

<b>Report No</b>	IES-NO-AR-72-156-2023	<b>Report Date</b>	30.03.2023
<b>Customer Name &amp; Address</b>  M/s TAMILNADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY CHENNAI	<b>Sample Reference No:</b>	IES-NO-AR-72-155-2023	
	<b>Sample Description:</b>	Ambient Air	
	<b>Sample Drawn by:</b>	Laboratory	
	<b>Sample Collected Date:</b>	28.03.2023	
	<b>Qty of sample Received:</b>	Filter Paper(2nos) & Approx 25ml Solution(4nos)	
	<b>Sample Received On:</b>	28.03.2023	
	<b>Test Commenced On:</b>	28.03.2023	
	<b>Test Completed On:</b>	30.03.2023	
	<b>Sampling Method:</b>	IES-SOP-ARS-01 to 11	
	<b>Sample Mark:</b>	Near to Boys Hostel	

S.No	Name of the Test	Test Method	Units	Results	Max. Annual Average Limits Of NAAQs
1.	Ammonia (as NH <sub>3</sub> )	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	6.3	100
2.	Arsenic (as As)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<0.1	6.0
3.	Benzene (as C <sub>6</sub> H <sub>6</sub> )	IS 5182 (Part 11): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	<0.5	5.0
4.	Benza (α) Pyrene(as C <sub>20</sub> H <sub>12</sub> )	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<0.5	1.0
5.	Carbon Monoxide (as CO)	Instruments Manual Based SOP No.EL-SOP-ARS-17	µg/m <sup>3</sup>	<1.1	2.0
6.	Lead (as Pb)	IS 5182 (Part 22): 2004 (Reaffirmed 2014) Clause No.5	µg/m <sup>3</sup>	<0.5	0.5
7.	Nickel (as Nil)	CPCB Guidelines, Volume I, NAAQMS/36/2012-13	µg/m <sup>3</sup>	<1.0	20
8.	Oxidants (as Ozone O <sub>3</sub> )	IS 5182 (Part IX)- 19747 (Reaffirmed 2014)	µg/m <sup>3</sup>	<10.0	100
9.	Oxidants of Nitrogen (as Ozone NO <sub>2</sub> )	IS 5182 (Part 6): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	24.2	40
10.	Particulate Matter (as PM <sub>10</sub> )	IS 5182 (Part 23): 2006 (Reaffirmed 2017)	µg/m <sup>3</sup>	42.1	60
11.	Particulate Matter (as PM <sub>2.5</sub> )	EPA 40 CFR Part 50- Appendix L	µg/m <sup>3</sup>	21.0	40
12.	Sulphur Dioxide (as SO <sub>2</sub> )	IS 5182 (Part 2): 2001 (Reaffirmed 2017)	µg/m <sup>3</sup>	12.3	50

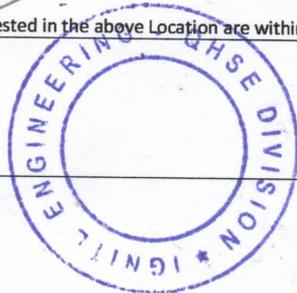
←-----END OF REPORT----->

**NOTES:**

The Concentrations of the parameters tested in the above Location are within the prescribed annual average limits of NAAQs tolerance limits.

Report Confirmed by

*[Handwritten Signature]*

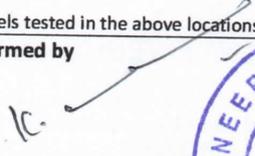


FOR IGNITE ENVIRONMENTAL SERVICES

Authorized Signatory



## NOISE MONITORING

<b>Report No</b>	EL-NO-NE-26-755-2023		<b>Report Date:</b>	30.03.2023		
<b>Customer Name &amp; Address</b> M/s. TAMILNADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY CHENNAI-127			<b>Sample of Reference No:</b>	IES-NO-IN-26-755-2023		
			<b>Sample Description:</b>	Light		
			<b>Monitoring By:</b>	Laboratory		
			<b>Monitoring Date:</b>	30.03.2023		
			<b>Data received On:</b>	30.03.2023		
			<b>Sampling Method:</b>	IS:9989- 1981 (Reaffirmed 2001)		
			<b>Monitoring unit:</b>	Db (A)		
S.no	Name of the Location	Monitoring Distance in m	Monitoring Time	Day Time (6.00 a.m -10.00 p.m)		
				Minimum	Maximum	L Equivalent
1.	Central Library	Site	11 AM -12PM	58.9	59.3	57.3
2.	Office	Site	11 AM -12PM	60.9	65.3	62.1
3.	VC Room	Site	11 AM -12PM	57.0	59.0	55.6
4.	Canteen	Site	11 AM -12PM	59.2	61.5	60.0
5.	Computer Lab	Site	11 AM -12PM	55.1	62.1	57.3
Permissible Limit For Noise as Per The Factories Rules 1950				Maximum 90.0		
←-----End of Report-----→						
<b>NOTES:</b> The sound levels tested in the above locations are within the prescribed limits of Factories rules 1950 Standard Limits						
Report Confirmed by			FOR IGNITE ENVIRONMENTAL SERVICES			
			 Authorized Signatory			
						



# IGNITE ENVIRONMENTAL SERVICES

An ISO 9001:2015 Certified Organization  
Environmental Testing & Analysis, Calibration of Instruments



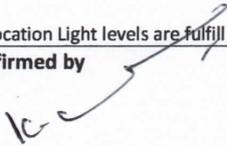
No.38/2, F1 Ranga Flats, Bharathiyar Street, Near Indian Bank,  
Hasthinapuram Road, Chrompet, Chennai - 44.

Regional Office : Pondicherry, Coimbatore & Andra Pradesh

Contact : 8778740104, 9384381615 | Email : igniteengg@gmail.com



## ILLUMINATION MONITORING

<b>Report No</b>	IES-NO-IN-26-756-2023	<b>Report Date:</b>	30.03.2023			
<b>Customer Name &amp; Address</b> M/s. TAMILNADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY CHENNAI-127		<b>Sample of Reference No:</b>	IES-NO-IN-26-756-2023			
		<b>Sample Description:</b>	Light			
		<b>Monitoring By:</b>	Laboratory			
		<b>Monitoring Date:</b>	30.03.2023			
		<b>Data Received On:</b>	30.03.2023			
		<b>Sampling Method:</b>	IS:9989- 1981 (Reaffirmed 2001)			
		<b>Monitoring unit:</b>	Db (A)			
S.no	Name of the Location	Monitoring Distance in m	Monitoring Time	Day Time (6.00 a.m -10.00 p.m)		
				Minimum	Maximum	L Equivalent
1.	Central Library	0.9	11 AM -12PM	349	431	409
2.	Office	0.9	11 AM -12PM	228	239	242
3.	VC Room	0.9	11 AM -12PM	304	322	320
4.	Canteen	0.9	11 AM -12PM	561	567	212
5.	Computer Lab	0.9	11 AM -12PM	423	446	434
Permissible Limit For Light as Per The Factories Rules, 1950				Maximum 65		
←-----End of Report-----→						
<b>NOTES:</b> The above Location Light levels are fulfill the necessities of Factories Rules 1950 standard.						
<b>Report Confirmed by</b> 			<b>FOR IGNITE ENVIRONMENTAL SERVICES</b>  Authorized Signatory			





# IGNITE ENVIRONMENTAL SERVICES

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Environmental Testing & Analysis, Calibration of Instruments



No.38/2, F1 Ranga Flats, Bharathiyar Street, Near Indian Bank,  
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Regional Office : Pondicherry, Coimbatore & Andra Pradesh

Contact : 8778740104, 9384381615 | Email : igniteengg@gmail.com



## TEST REPORT

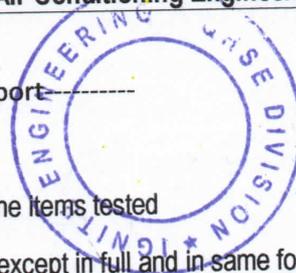
Sample Ref No: EES/AS/544/2023	Date of Sampling: 28.03.2023
Issued To:	Report Date/Report No: 30.03.2023
<b>M/s. TAMILNADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY Melakottaiyur Chennai-600127</b>	
Page 1 of 1	
Group : Atmospheric Pollution	Sample Drawn By/Date : IES/28.03.2023
Discipline : Chemical Testing	Received On : 28.03.2023
Sample Description : Indoor Air Quality	Analysis Commenced On : 28.03.2023
Sampling Method : IS 5182, NIOSH & SOP	Analysis Completed On : 30.03.2023

Sl. No	Sampling Location	UNIT	RESULT Carbon-di-oxide (CO <sub>2</sub> )	ASHRAE LIMITS
1	Central Library	ppm	385	1000
2	Office	ppm	415	
3	Principal Room	ppm	488	
4	Canteen	ppm	414	
5	Computer Lab	ppm	377	
6	Biomechanics	ppm	471	

ASHRAE- American Society of Heating Refrigerating and Air-Conditioning Engineers,



-----End of Report-----



  
Authorized Signatory

- Note
1. Test result shown in this test report relate only to the items tested
  2. This test Report shall not be reproduce anywhere except in full and in same format without the approval of the Laboratory



தமிழ்நாடு உடற்கல்வியியல் மற்றும் விளையாட்டுப் பல்கலைக்கழகம்  
TAMIL NADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY

(Estd. by the Govt. of Tamil Nadu Under Act No. 9 of 2005)

Accredited with "B" Grade by NAAC

Melakottaiyur Post, Vandalur-Kelambakkam Road, Chennai - 600 127. Tamil Nadu, India.  
Tel : 044 - 27477906 E-mail : regtnpesu@gmail.com Website : www.tnpesu.org

**Dr.V.Gopinath**  
**Registrar**

OP.No.582A/970/TNPESU/Regr/Green Environment/2022

Date: 28.02.2022

To,

The Program Manager,  
M/s Saytrees, Say Trees  
Environmental Trust,  
BNG (U) BGR / 26/2013-2014,  
Bangalore - 560100

Sir/Madam,

**Sub:** TNPESU - Creation of Miyawaki Forest - University Campus - Approval given - reg. Establishment Dr.Grace Helina - Professor - Transfer of TPF Amount - requested - reg.

**Ref:** Letters of Saytrees.

\*\*\*\*\*

I am by direction to inform that this University has given approval to your company towards execution of works pertaining to creation of Miyawaki Forest in the land behind the quarters of Vice-Chancellor and Registrar and quarry belt.

The Memorandum of Understanding will be made between your company and TNPESU at later stage.

Thanking you,

Yours faithfully,

V. Gopinath  
28/2/2022

Registrar



**MEMORANDUM OF UNDERSTANDING BETWEEN SAYTREES & TAMIL NADU  
PHYSICAL EDUCATION AND SPORTS UNIVERSITY**



This Memorandum of Understanding (the "MOU") is executed on this \_\_\_\_\_ by and between:

SayTrees Environmental Trust, a non-governmental organisation, incorporated under the provisions of Indian Trusts Act, 1882, and having its registered office at No. 6, 1st cross, first floor, Basapura, Near Hosa Road Junction, Bengaluru, Karnataka 560100, hereinafter referred to as "SayTrees" of the

**ONE PART;**

**And**

**Tamil Nadu Physical Education and Sports University\_Melakottaiyur, Chennai, Tamil Nadu 600127**, hereinafter referred to as "Tamil Nadu Physical Education and Sports University" which expression shall, unless it be repugnant to the subject or context thereof, include its successors and permitted assignees, of the

**OTHER PART**

"SayTrees Environmental Trust" and the "Tamil Nadu Physical Education and Sports University" may hereinafter individually be referred to as "Party", and collectively as "Parties".

**WHEREAS**

1. SayTrees Environmental Trust is a non-governmental organization working in the field of afforestation and environment restoration since the year 2007. Since its inception, SayTrees has planted 52 Miyawaki forests with a total of over 5,50,000 saplings, with the support of 50,000 volunteers and several corporates and thus has experience and expertise in creating Miyawaki forests.
2. The Tamil Nadu Physical Education and Sports University and Say Trees are both desirous of creating a Miyawaki forest as an initiative to restore the environment and mitigate climate change. The terms and conditions for the partnership are listed below.

The Parties have had the initial discussions on the site selection, land details and other essentials for creating the Miyawaki forest. Hence, this MoU is a record of the process completed so far, as well as crucial terms and conditions for the creation, maintenance and permanent survival of the forest.

1. **Site Selection and Land Ownership:** After careful consideration, SayTrees has selected one site (shortlisted by the Tamil Nadu Physical Education and Sports University) and found its conditions suitable for the growth and survival of the forest. The coordinates of the said land are (12°49'56.76"N),( 80° 8'35.09"E). The plot is owned by Tamil Nadu Physical Education and Sports University. The owner/s have duly consented to the use of the land for the creation of the forest. Copies of the concerned documents regarding the land ownership and permission for its use are attached hereto as Annexure A and Annexure B respectively.
2. **Land Area:** The main plantation area measures around 3.30 acres, and it will be surrounded by a 1.5-mt. wide trench on each side. The total land area will account for the trench which will be dug on all sides of the plantation area, as an additional protective measure for the forest.
3. **Water and Electricity:** The Tamil Nadu Physical Education and Sports University will provide a source of electricity and water for the regular upkeep of the forest for a period of two years. There will be one primary source and two backup sources for each. SayTrees will check and confirm these sources at the time of plantation. All expenses regarding electricity and water (if any) will be borne by the Tamil Nadu Physical Education and Sports University
4. **On the Expenses and Delivery of Essential Services and Materials:** SayTrees will prepare a list of the materials necessary at all stages of the creation and upkeep of the forest. We will connect with vendors with the support and recommendations of the Tamil Nadu Physical Education and Sports University (as needed), place orders, make direct payments to the vendors and ensure smooth delivery. Such materials include saplings, cocopeat, vermicompost, support sticks, etc. Materials for the upkeep of the forest such as biofertilisers and mulching are also included. Services and other deliverables include machine (JCB / Poclain) costs, agronomic expert costs, costs of team visits, etc. All costs incurred for the setting up of the forest -

from land preparation to maintenance of the forest - including but not limited to the costs mentioned in this paragraph, shall be borne by SayTrees alone, for the duration of two years.

5. **Agronomic Expert:** SayTrees will appoint an agronomic expert who will visit the forest at time periods stipulated as per the Miyawaki technique. This expert shall also be available for phone and video counselling, as needed. He / She / They will be responsible for any troubleshooting and problem solving in the first two years of the forest. SayTrees will ensure that the expert also proactively keeps in touch with the Tamil Nadu Physical Education and Sports University and caretaker, and receives regular updates on the forest.
6. **Sapling Plantation and Caretaking:** It will be the responsibility of the Saytrees to Plant & maintain the plant saplings in the land allocated by Tamil Nadu Physical Education and Sports University. We will deploy a full-time caretaker for the regular upkeep of the forest. The salary of the said person for a period of two years will be borne by SayTrees.
7. **Installation of Name Board:** The Tamil Nadu Physical Education and Sports University will support the installation of a name board at the forest entrance, to acknowledge the funders who have contributed towards the creation of the forest.
8. **Funding and Communication with Funder/s:** SayTrees will be entitled to raise funds for the forest and handle the end-to-end communication with the funder/s or funding organization. This includes (but is not limited to) coordinating site visits and trips, answering queries, finalizing the budget, sharing expense reports, working on an audit report, sharing photos and updates, etc.
9. **On Exchange of Funds:** Funds for the forest will be directly sourced by SayTrees from the funder/s or funding organization. At no point will the funder/s give any funds to the Tamil Nadu Physical Education and Sports University. For the materials and services necessary for the forest, SayTrees will transfer allocated funds from the budget to vendors / service providers directly.
10. **On the Permanent Survival of the Forest:** The forest should survive forever. The Tamil Nadu Physical Education and Sports University will offer 100% support and commitment towards this endeavour. Hence, the Tamil Nadu Physical Education and Sports University will also ensure that the saplings planted in the forest will never be removed nor cut, and the land allotted to the forest will never be allotted for any purpose other than as a forest. The Tamil Nadu Physical Education and Sports University will also protect the land from grazing, fire or any other harm.
11. **On Miscellaneous Costs:** In case of any unforeseen emergency expenditures for disaster management, re-plantation of saplings, etc. SayTrees will proactively step in

and allocate miscellaneous / safety costs from the budget. The extent of the expenditure and intervention will be determined by SayTrees in consultation with the Tamil Nadu Physical Education and Sports University and agronomic expert.

## 1. Term

- 1.1. This MOU shall be effective from the date of execution. The Tamil Nadu Physical Education and Sports University will be committed to ensure its survival in perpetuity.

## 2. Publicity and Translation of Materials

- 2.1. SayTrees will acknowledge the Tamil Nadu Physical Education and Sports University while sharing updates about the forest in online or print media, and vice versa.

## 3. Notice

- 3.1. All communications given under or pursuant to this MOU by a Party to the other Party shall be deemed to have been given when hand delivered by messenger or courier or sent by registered post or speed post or email (and in the case of email, to be subsequently followed up by delivery through any other means).

### **If to Say Trees Environmental Trust:**

[ No. 6, 1st cross, first floor, Basapura, Near Hosa Road Junction, Bengaluru,  
Karnataka 560100]

### **If to Tamil Nadu Physical Education and Sports University:**

[Tamil Nadu Physical Education and Sports University Melakottaiyur, Chennai,  
Tamil Nadu 600127 ]

Or to such other addresses as a Party may from time to time designate by written notice to the other.

## 4. Force Majeure

- 4.1. Neither Party shall be liable to the other Party for any failure or delay in performance of any of its obligations under this MOU if such failure or delay is either partly or wholly due to any occurrence beyond the control of the Parties, including, without limitation, any Acts of God, or of any governmental body, or of public enemy, riots, embargoes, (the "Force Majeure"), which hinder the performance of obligations under this MOU.
- 4.2. Upon the occurrence of any such Force Majeure condition, the Party affected by Force Majeure condition shall as soon as reasonably practicably notify the other Party of the nature and extent thereof and the Parties shall enter into bonafide discussions with a view to assessing its effects, or to agreeing upon such alternative arrangements as may be fair and reasonable. If the Force Majeure condition continues for more than two months, either party shall have the option to terminate this MOU issuing not less than two months' notice to the other party.

## **5. Miscellaneous**

- 5.1. The Parties agree that they shall cooperate with each other, subject to mutually agreed terms and conditions for executing this MOU.

6. Neither Party shall assign its rights and obligations under this MOU to any third party without the prior written consent of the other Party.

In witness whereof the Parties have caused this MOU to be executed through their authorized representative on the day and year first above written.

**IN WITNESS WHEREOF**, the Parties hereto have caused this MOU to be executed by their respective duly authorized officers as of the date first above written.

**For and on behalf of**

**SayTrees Environmental Trust**

**Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**Witness:** \_\_\_\_\_

**For and on behalf of**

**Tamil Nadu Physical Education  
and Sports University**

\_\_\_\_\_

**Name:** \_\_\_\_\_

**Designation:** \_\_\_\_\_

**Witness:** \_\_\_\_\_

**saytrees**  
www.saytrees.org

SayTrees Environmental Trust  
BNG(U)BGR/26/2013-2014  
Bangalore - 560100  
PAN # AAMTS8900M



www.saytrees.org | info@saytrees.org | Ph# +91-8884200070

Your contributions are eligible for TAX BENEFIT under section 80G of Income Tax.  
80G exemption certificate no. - DIT(E)BLR/80G/I-372/AAMTS8900M/ITO(E)-1/Vol 2013-2014

To,  
The Registrar  
TNPESU,  
Chennai-127.



Sub - Approval letter for creation of Miyawaki forest in TNPESU campus.

Respected Sir,

SayTrees is a registered NGO, which has been planting trees and creating forests for more than one decade. We have planted more than 20,000 saplings in Chennai along with Greater Chennai corporation & Integral Coach Factory. We intend to create a Miyawaki forest inside your university campus. SayTrees will take care of the forest for a period of 2 years from the date of plantation by engaging work force. Post maintenance period the forest becomes self-sustainable & maintenance free.

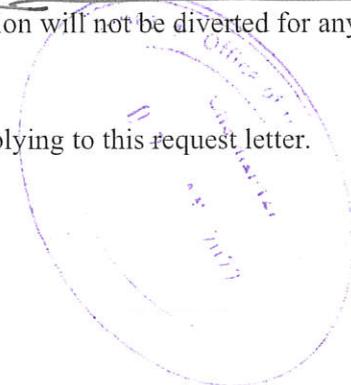
We will be planting about 30,000 native species saplings in the land provided to us. It will help the environment by providing Ecosystem services, help the generations to come & serve as a resource centre for the students of the university.

We would also require constant supply of water, electricity & security for the afforested area from your side & a permission letter stating that the approved land for Afforestation will not be diverted for any other construction activity in coming future.

Please acknowledge your approval for the creation of the forest by replying to this request letter.

Yours Sincerely,

V. Vishal,  
Program Manager,  
SayTrees Environmental Trust,  
Bangalore





# The Tamilnadu Industrial Investment Corporation Limited

(A Government of Tamilnadu Undertaking)

The Growth Catalyst

TIIC/CSR/2022-23

31/03/2023

The Rotary Environment District Team 3232,  
No.51, G Block, 9<sup>th</sup> Street,  
Anna Nagar East,  
Chennai – 600 102.

Madam,

**Sub:** Sanction order for financial assistance under Corporate Social Responsibility (CSR) fund for the creation of a new pond in Tamil Nadu Physical Education and Sports University (TNPESU), Vengadamangalam, Melakottaiyur, Chengalpattu District at an estimated cost of Rs.39,20,421/- – Approved by the Board of TIIC by circulation - reg.

- Ref:** 1) Letter dt. 23.03.2023 from the The Rotary International District Chairman of lake rejuvenation of District 3232 requesting TIIC to consider financial assistance under CSR for the creation of new pond at TNPESU  
2) Letter from TNPESU dated 15.03.2023 to the District Collector, Chengalpattu for the above work  
3) Approval from the District Collector, Chengalpattu dated 17.03.2023 for the above work  
4) Approved by the Board of Directors by Circulation

\*\*\*\*\*

We are glad to inform that our Board by Circulation dated 31.03.2023 has approved the proposal for financial assistance under Corporate Social Responsibility (CSR) fund for the creation of a new pond in Tamil Nadu Physical Education and Sports University (TNPESU), Vengadamangalam, Melakottaiyur, Chengalpattu District at an estimated cost of Rs.39,20,421/- (Rupees thirty nine lakhs twenty thousand four hundred and twenty one only) by Rotary Foundation of India viz. Rotary Environment District Team 3232 subject to the following conditions:

..2,

692, Anna Salai, Nandanam, Chennai - 600 035, Tamilnadu.

Phone : +91-44-2430 6100 / 2433 1203, Fax : +91-44-2434 7150

E-mail : ho@tiic.org Web.: www.tiic.org

CIN: U93090TN1949SGC001458 GSTIN : 33AABCT7737M1ZY



- 1) Tamil Nadu Physical Education and Sports University (TNPESU) shall entrust the work to Rotary Foundation of India viz Rotary Environment District Team 3232 for the work as approved by the District Collector, Villupuram District.
- 2) The work shall be entrusted to Rotary Environment District Team 3232 and the amount to be spent on the rejuvenation work shall not exceed Rs.39,20,421/-as per the estimate given by the Assistant Engineer (RD), Thiruporur.
- 3) ~~The Rotary Foundation of India viz Rotary Environment District Team~~ 3232 shall furnish the utilization certificate on completion of the work for audit purpose through Tamil Nadu Physical Education and Sports University.
- 4) The savings if any in the project cost, be refunded to the Corporation by Tamil Nadu Physical Education and Sports University.
- 5) The Rotary Foundation of India viz Rotary Environment District Team 3232 shall inform the completion of work to TIIC officials for inspection.
- 6) The Rotary Foundation of India viz Rotary Environment District Team 3232 shall fix a name board in the style "Constructed under CSR funds of TIIC, Chennai" after completion of the work.



# The Tamilnadu Industrial Investment Corporation Limited

(A Government of Tamilnadu Undertaking)

The Growth Catalyst

-3-

- 7) The payment shall be released by Tamil Nadu Physical Education and Sports University on stages of completion of work to the RFI viz Rotary Environment District Team 3232 under intimation to TIIC.

Thanking you,

Yours faithfully,

**Chairman & Managing Director**

Copy to:

The Vice-Chancellor,  
Tamil Nadu Physical Education and  
Sports University,  
Melakottaiyur Post,  
Chennai - 600 127.

: With a request to entrust the  
work to RFI viz. Rotary  
Environment District Team 3232

C.C. to:

Rotary Foundation (India),  
Pullman / Novotel Commercial Tower,  
First Floor, Asset No.2, Hospitality District,  
IGI Airport,  
South West Delhi  
Delhi - 11 0037

- For Information.





# The Tamilnadu Industrial Investment Corporation Limited

(A Government of Tamilnadu Undertaking)

The Growth Catalyst

TIIC/CSR/2022-23

31/03/2023

The Rotary Environment District Team 3232,  
No.51, G Block, 9<sup>th</sup> Street,  
Anna Nagar East,  
Chennai – 600 102.

Madam,

**Sub:** Sanction order for financial assistance under Corporate Social Responsibility (CSR) fund for the creation of a new pond in Tamil Nadu Physical Education and Sports University (TNPESU), Vengadamangalam, Melakottaiyur, Chengalpattu District at an estimated cost of Rs.39,20,421/- – Approved by the Board of TIIC by circulation - reg.

- Ref:** 1) Letter dt. 23.03.2023 from the The Rotary International District Chairman of lake rejuvenation of District 3232 requesting TIIC to consider financial assistance under CSR for the creation of new pond at TNPESU  
2) Letter from TNPESU dated 15.03.2023 to the District Collector, Chengalpattu for the above work  
3) Approval from the District Collector, Chengalpattu dated 17.03.2023 for the above work  
4) Approved by the Board of Directors by Circulation

\*\*\*\*\*

We are glad to inform that our Board by Circulation dated 31.03.2023 has approved the proposal for financial assistance under Corporate Social Responsibility (CSR) fund for the creation of a new pond in Tamil Nadu Physical Education and Sports University (TNPESU), Vengadamangalam, Melakottaiyur, Chengalpattu District at an estimated cost of Rs.39,20,421/- (Rupees thirty nine lakhs twenty thousand four hundred and twenty one only) by Rotary Foundation of India viz. Rotary Environment District Team 3232 subject to the following conditions:

..2,

692, Anna Salai, Nandanam, Chennai - 600 035, Tamilnadu.

Phone : +91-44-2430 6100 / 2433 1203, Fax : +91-44-2434 7150

E-mail : ho@tiic.org Web.: www.tiic.org

CIN: U93090TN1949SGC001458 GSTIN: 33AABCT7737MIZY



- 1) Tamil Nadu Physical Education and Sports University (TNPESU) shall entrust the work to Rotary Foundation of India viz Rotary Environment District Team 3232 for the work as approved by the District Collector, Villupuram District.
- 2) The work shall be entrusted to Rotary Environment District Team 3232 and the amount to be spent on the rejuvenation work shall not exceed Rs.39,20,421/-as per the estimate given by the Assistant Engineer (RD), Thiruporur.
- ~~3) The Rotary Foundation of India viz Rotary Environment District Team 3232 shall furnish the utilization certificate on completion of the work for audit purpose through Tamil Nadu Physical Education and Sports University.~~
- 4) The savings if any in the project cost, be refunded to the Corporation by Tamil Nadu Physical Education and Sports University.
- 5) The Rotary Foundation of India viz Rotary Environment District Team 3232 shall inform the completion of work to TIIC officials for inspection.
- 6) The Rotary Foundation of India viz Rotary Environment District Team 3232 shall fix a name board in the style "Constructed under CSR funds of TIIC, Chennai" after completion of the work.



# The Tamilnadu Industrial Investment Corporation Limited

(A Government of Tamilnadu Undertaking)

The Growth Catalyst

-3-

- 7) The payment shall be released by Tamil Nadu Physical Education and Sports University on stages of completion of work to the RFI viz Rotary Environment District Team 3232 under intimation to TIIC.

Thanking you,

Yours faithfully,

**Chairman & Managing Director**

✓ Copy to:

The Vice-Chancellor,  
Tamil Nadu Physical Education and  
Sports University,  
Melakottaiyur Post,  
Chennai - 600 127.

: With a request to entrust the  
work to RFI viz. Rotary  
Environment District Team 3232

C.C. to:

Rotary Foundation (India),  
Pullman / Novotel Commercial Tower,  
First Floor, Asset No.2, Hospitality District,  
IGI Airport,  
South West Delhi  
Delhi - 11 0037

- For Information.



The Growth Catalyst

# The Tamilnadu Industrial Investment Corporation Limited

(A Government of Tamilnadu Undertaking)



*My*

TIIC/CSR/2022-23

The Vice-Chancellor,  
Tamil Nadu Physical Education and Sports University,  
Melakottaiyur Post,  
Chennai – 600 127.

31/03/2023

*FO. - 1000 -  
deposit in the  
University account a/c*

Dear Sir,

**Sub:** Disbursement of funds under Corporate Social Responsibility (CSR) fund for the creation of a new pond in Tamil Nadu Physical Education and Sports University (TNPESU), Vengadamangalam, Melakottaiyur, Chengalpattu District at an estimated cost of Rs.39,20,421/- – Approved by the Board of TIIC by circulation - reg.

- Ref:** 1) Letter dt. 23.03.2023 from the The Rotary International District Chairman of lake rejuvenation of District 3232 requesting TIIC to consider financial assistance under CSR for the creation of new pond at TNPESU  
2) Letter from TNPESU dated 15.03.2023 to the District Collector, Chengalpattu for the above work  
3) Approval from the District Collector, Chengalpattu dated 17.03.2023 for the above work  
4) Approved by the Board of Directors by Circulation  
5) Sanction letter from TIIC dated 31.03.2023

\*\*\*\*\*

In continuation of our sanction letter 5<sup>th</sup> cited above, we enclose herewith a cheque No.012301 dated 31.03.2023 for Rs.39,20,421/- (Rupees thirty nine lakhs twenty thousand four hundred and twenty one only) towards financial assistance under Corporate Social Responsibility (CSR) fund for the creation of a new pond in Tamil Nadu Physical Education and Sports University (TNPESU),

*Original cheque are  
deposited on 23.06.2023  
to U.S. by grant A/c*

..2,



-2-

Vengadamangalam, Melakottaiyur, Chengalpattu District by RFI viz. The Rotary Environment District Team 3232 subject to the conditions stipulated in the sanction letter.

Kindly acknowledge the receipt of the same.

Yours faithfully,

---

**Chairman & Managing Director**

**Cc to:**

The Rotary Environment District Team 3232,  
No.51, G Block, 9<sup>th</sup> Street,  
Anna Nagar East,  
Chennai - 600 102.



Branch : NANDANAM  
 480 Anna Salai Nandanam  
 Chennai Tamil Nadu, Tamil Nadu  
 IFS Code : IDIB000N078

A/c. PAYEE ONLY

VALID FOR THREE MONTHS ONLY

3	1	0	3	2	0	2	3
D	D	M	M	Y	Y	Y	Y

PAY TAMILNADU PHYSICAL EDUCATION AND SPORTS UNIVERSITY या धारक को OR BEARER

RUPEES रुपये THIRTY NINE LAKHS TWENTY THOUSAND FOUR HUNDRED AND TWENTY

ONE ONLY

अदा करें ₹ 3920421/-

खा.सं. A/c No.	CA 6628633143
-------------------	---------------

FOR TIIC LTD - APPLICATION FEES

CBS Code: 01443

*S. Kathambai*  
 AUTHORIZED SIGNATORY

Authorized Signatory

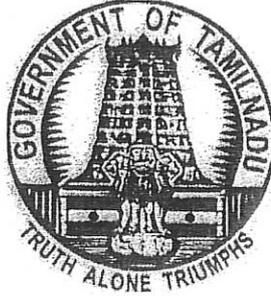
Please sign above

992000094

PAYABLE AT PAR AT ALL OUR BRANCHES

⑈012301⑈ 600019096⑈ 633143⑈ 29

MADRAS SECURITY PRINTERS PVT LTD - CHENNAI / GST: 2019



**GOVERNMENT OF TAMIL NADU**

**RURAL DEVELOPMENT DEPARTMENT**

**CSR FUNDS**

**YEAR : 2022-23**

**CHENGALPATTU DISTRICT**

**THIRUPORUR PANCHAYAT UNION**

**MELAKOTTAIYUR**

**NAME OF WORK**

**Providing to Physical Education and Sports Univercity  
Pond @ Melakottaiyur Panchayat in Thiruporur  
Panchayat union Chengalpattu District**

**ESTIMTE AMOUNT Rs : 3920421 /-**

## CHECK SLIP

- 1 Name of the Scheme : CSR Funds 2022 - 2023
- 2 District : Chengalpattu
- 3 Block : Thiruporur
- 4 Name of the work : Providing to Physical Education  
and Sports Univercity Pond @  
Melakottaiyur Panchayat in  
Thiruporur Panchayat union  
Chengalpattu District
- 5 Panchayat : Melakottaiyur
- 6 Habitation : Melakottaiyur
- 7 Length of Bund :
- 
- 8 Administrative Sanction Details : Roc No :
- 9 Estimate Amount : Rs.3920421/-
- 10 Technical Sanction No.& Date :
- 11 Whether Route Map is enclosed :
- 12 Whether FM sketch is enclosed :
- 13 Components of works taken up
- 17 Total Amount : Rs.3920421/-

**Specification Report to Accompany the estimate for the work of**

**Providing to Physical Education and Sports University Pond @ Melakottaiyur Panchayat in Thiruporur Panchayat union Chengalpattu District**

**District : Chengalpattu  
Panchayat Melakottaiyur**

**Block : Thiruporur  
Habitation:**

**ESTIMATE AMOUNT RS : 3920421**

**This kulam is located in Melakottaiyur panchayat . This Kulam is the Most needed Kulam for Villagers. The Size of the pond is 65x115Mts & 104x140mtr. Lot of vegetation Jungles in the outer pond .Hence it is necessary to improve the pond under CSR Funds 2022-2023 are made in the estimate**

**This estimate is prepared with the following provisions:**

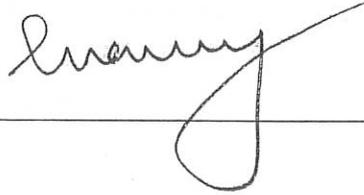
- 1 Clearing the scrub Jungle including all Labour charges etc.
- 2 Earthwork excavation for inner and outer pond
- 3 Earth work excavation in all clauses of soil except hard rock which required blasting such as hard red earth, shalls, murrams including all cost and all labour charges etc. complete. As per SS 20B for foundation
- 4 Provision for Fencing Arrangements

---

- 5 Provision for Soil Survey and mapping Arrangements
- 6 Provision for Hitachi JCB 200 and JCD140 Transportation Arrangements
- 7 Provision for Defining the Contour of both side of Ponds
- 8 Provision for Creation of Islands on either side of the Pond
- 9 Provision for Inlet and Outlet Pipe Installation Arrangements
- 10 Provision for Admin Charge
- 11 Provision for Creating Pathway 115mtr width 6 feet @ Rs 140/Sq ft inclusive GST 18%
- 12 Provision for Plantation of saplings and Creation of Landscaping wherever necessary in the pond
- 13 Provision for Creation of Islands on either side of the Pond Provision for Creation of Islands on either side of the Pond
- 14 Provision for Supervisor Charges

- Provision for Conveyance and Field Coordination Charges
- 16 Provision for Video and Branding Charges
- 17 Name board Charges
- 18 Add GST 18%
- 19 Photographic charges

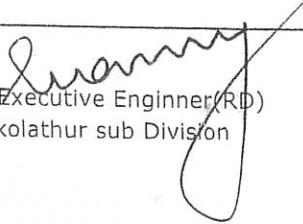
The rates adopted are as per the Standard schedule of rates for the 2022-2023 communicated through This estimate is finalized for sanction and will be carried out as per the Rural Development Department specification and instruction from the higher official then and there.



  
ASSISTANT ENGINEER (R.D.)  
PANCHAYAT UNION  
THIRUPPORUR



14	Provision for Supervisor Charges									50000
15	Provision for Conveyance and Field Coordination Charges									40000
16	Provision for Video and Branding Charges									60000
17	Name board Charges									4000
18	Add LWF 1%									16973
19	Add GST 18%									305519
20	Photographic charges									400
21	Contigencies Charges									41
TOTAL :										3920421

  
Assistant Executive Engineer (RD)  
Kattankolathur sub Division

  
Assistant Engineer (RD)  
Thirupporur Panchayat Union  
PANCHAYAT UNION  
THIRUPPORUR

பெருநகரசபை 953/2023/அ10.

பெருநகரசபை

பெருநகரசபையின் சமூக பொறுப்பு (Corporate Social Responsibility) திட்டம் - 2022 - 23 - செங்கல்பட்டு மாவட்டம் திருப்போரூர் ஊராட்சி ஒன்றியம் - மேலகோட்டையூர் ஊராட்சி தமிழ்நாடு உடற்கல்வியியல் மற்றும் விளையாட்டுப் பல்கலைக்கழகம் - பல்கலைக்கழக வளாகத்தினுள் புதிய குளம் உருவாக்குதல். ROTARY ENVIRONMENT DISTRICT TEAM 3232, Chennai-600 102 என்ற அமைப்பு அனுமதி கோரியது. கள ஆய்வு அறிக்கை வரப்பெற்றது - பணிகள் மேற்கொள்ள அனுமதி வழங்கி உத்தரவிடுதல்.

படிக்கப்பட்டவை -

1. சென்னை, தலைமைச் செயலகம், அரசு தலைமைச் செயலர் அவர்களின் நே.மு.க.எண்.1046/CS/MISC/2022-23, நாள்.07.03.2023.
2. ROTARY ENVIRONMENT DISTRICT TEAM 3232 அமைப்பின் கடித நாள். 07.03.2023.
3. தமிழ்நாடு உடற்கல்வியியல் மற்றும் விளையாட்டுப் பல்கலைக்கழகம், துணை வேந்தர் அவர்களின் கடித நாள். 15.03.2023.
4. காட்டாங்கொளத்தூர் உபகோட்டம், உதவி செயற்பொறியாளரின் கள ஆய்வறிக்கை.

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ஆணை:-

பார்வை (2) இல் காணும் மனுதாரரின் வேண்டுகோள் மனுவிட்கிணங்க, செங்கல்பட்டு மாவட்டம் திருப்போரூர் ஊராட்சி ஒன்றியம், மேலகோட்டையூர் ஊராட்சியில் உள்ள தமிழ்நாடு உடற்கல்வியியல் மற்றும் விளையாட்டுப் பல்கலைக்கழக வளாகத்தினுள் புதிய குளம் அமைப்பதற்கு பெருநகரசபையின் சமூக பொறுப்பு திட்டத்தின்கீழ் (CSR activities) அனுமதி வழங்கிடலாம் என பார்வை 4ல் காணும் கள ஆய்வு அறிக்கை வரப்பெற்றுள்ளது. பணியின் விவரம் பின்வருமாறு.

அட்டவணை

வ. எண்	செயல்படுத்தும் நிறுவனத்தின் பெயர்	குளத்தின் அமைவிடம்	பணியின் விவரங்கள்	மதிப்பீடு ரூ.	கண்காணிப்பு அலுவலர்
1	ROTARY ENVIRONMENT DISTRICT TEAM 3232, Chennai	மேலகோட்டையூர் ஊராட்சி, தமிழ்நாடு உடற்கல்வியியல் மற்றும் விளையாட்டுப் பல்கலைக்கழக வளாகத்தினுள் புதிய குளம் அமைக்கும் பணி (65m x 11.5m) and 104m x 140m)	<ul style="list-style-type: none"> <li>&gt; Removal of the accumulated sediment, contour the pond's surface as needed.</li> <li>&gt; Bush clearance, create islands if needed.</li> <li>&gt; Create rechargeable pits to improve the water table.</li> <li>&gt; Strengthen the embankments and adjust the inlet and outlet to meet the specific needs of the area.</li> <li>&gt; Installing fence.</li> <li>&gt; Creating walking path.</li> <li>&gt; Plant Vegetation.</li> </ul>	39,20,421/-	வட்டார வளர்ச்சி அலுவலர் (வ.உ.) மற்றும் உதவி பொறியாளர் திருப்போரூர் ஊராட்சி ஒன்றியம்.









15 Provision for Conveyance and Field Coordination Charges

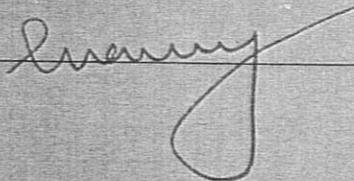
16 Provision for Video and Branding Charges

17 Name board Charges

18 Add GST 18%

19 Photographic charges

The rates adopted are as per the Standard schedule of rates for the 2022-2023 communicated through This estimate is finalized for sanction and will be carried out as per the Rural Development Department specification and instruction from the higher official then and there.



ASSISTANT ENGINEER (R.D.)  
PANCHAYAT UNION  
THIRUPPORUR

15 Provision for Conveyance and Field Coordination Charges

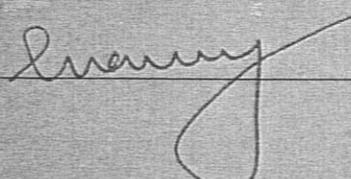
16 Provision for Video and Branding Charges

17 Name board Charges

18 Add GST 18%

19 Photographic charges

The rates adopted are as per the Standard schedule of rates for the 2022-2023 communicated through This estimate is finalized for sanction and will be carried out as per the Rural Development Department specification and instruction from the higher official then and there.



  
ASSISTANT ENGINEER (R.D.)  
PANCHAYAT UNION  
THIRUPPORUR

Specification Report to Accompany the estimate for the work of  
Providing to Physical Education and Sports University Pond @ Melakottaiyur  
Panchayat in Thiruppur Panchayat union Chengalpattu District  
District : Chengalpattu Block : Thiruppur  
Panchayat : Melakottaiyur Habitation :

ESTIMATE AMOUNT RS : 3920421

This kulam is located in Melakottaiyur panchayat . This Kulam is the Most needed Kulam for Villagers. The size of the pond is 65x115m<sup>2</sup> & 104x140m<sup>2</sup>. Lot of vegetation Jungles in the outer pond . Hence it is necessary to improve the pond under CSR Funds 2022-2023 are made in the estimate .

This estimate is prepared with the following provisions:

- 1 Clearing the scrub jungle including all Labour charges etc.
- 2 Earthwork excavation for inner and outer pond
- 3 Earth work excavation in all clauses of soil except hard rock which required blasting such as hard red earth, shalis, murrums including all cost and all labour charges etc. complete. As per SS 208 for foundation
- 4 Provision for Fencing Arrangements
- 5 Provision for Soil Survey and mapping Arrangements
- 6 Provision for Hitachi JCB 200 and JCD140 Transportation Arrangement
- 7 Provision for Defining the Contour of both side of Ponds
- 8 Provision for Creation of Islands on either side of the Pond
- 9 Provision for Inlet and Outlet Pipe Installation Arrangements
- 10 Provision for Admin Charge
- 11 Provision for Creating Pathway 115mtr width 6 feet @ Rs 140/Sq inclusive GST 18%
- 12 Provision for Plantation of saplings and Creation of Landscaping necessary in the pond
- 13 Provision for Creation of Islands on either side of the Pond  
Creation of Islands on either side of the Pond
- 14 Provision for Supervisor Charges

### CHECK SLIP

1 Name of the Scheme	: CSR Funds 2022 - 2023
2 District	: Chengalpattu
3 Block	: Thiruporur
4 Name of the work	: Providing to Physical Education and Sports Univercity Pond @ Melakottaiyur Panchayat in Thiruporur Panchayat union Chengalpattu District
5 Panchayat	: Melakottaiyur
6 Habitation	: Melakottaiyur
7 Length of Bund	:
8 Administrative Sanction Details	: Roc No :
9 Estimate Amount	: Rs.3920421/-
10 Technical Sanction No. & Date	:
11 Whether Route Map is enclosed	:
12 Whether FM sketch is enclosed	:
13 Components of works taken up	:
17 Total Amount	: Rs.3920421/-



GOVERNMENT OF TAMIL NADU  
RURAL DEVELOPMENT DEPARTMENT  
CSR FUNDS

YEAR : 2022-23

CHENGALPATTU DISTRICT

THIRUPORUR PANCHAYAT UNION

MELAKOTTAIYUR

NAME OF WORK

Providing to Physical Education and Sports Univercity  
Pond @ Melakottaiyur Panchayat in Thiruporur  
Panchayat union Chengalpattu District

ESTIMTE AMOUNT Rs

3920421/-

**மேலதிக நிபந்தனைகள் :-**

11. பணிகள் துவங்குவதற்கு முன்னர் பணி மீட்டர் பற்றி சான்றிதழ் மற்றும் பணி முடிவுற்றவுடன் 3 நிலைகளில் ஒவ்வொரு நிலைக்கும் முகவரி மட்டியாகவும் வேண்டும். பணிகளுக்கான புகைப்படங்கள் கண்காணிப்பு மாவட்ட அலுவலக முகமையில் சமர்ப்பிக்கப்பட வேண்டும்.
12. பணிகள் முடிந்தவுடன் அமைக்கப்பட்ட குளத்தில் மீட்டர் பணி மேற்கொள்ளும் நிறுவனமே (அ) அமைப்போ எந்தவித உரிமையும் கோர முடியாது.
13. மேற்படி பணியினால் பல்கலைக்கழக வளாகத்தினுள் அமைந்துள்ள கட்டிடங்களிலும் மற்றும் பல்கலைக்கழக சொத்துகளுக்கும் எவ்வித பாதிப்பும் ஏற்படுத்தக் கூடாது.
14. பணி நடைபெறும் தளத்தில் பணி மேற்கொள்ளும் தொண்டு நிறுவனத்தின் பெயர் பணியின் விவரங்கள் மற்றும் பணியின் மதிப்பீடு குறித்த அறிவிப்பு பலகை பணிக் தளத்தில் கண்டிப்பாக அமைக்கப்பட வேண்டும்.
15. இப்பணியினை மேற்கொள்ளும்போது பணியில் ஈடுபடும் அனைவரும் முகக்கவசம் அணிந்து, தனிநபர் இடைவெளியை கண்டிப்பாக கடைப்பிடிக்கப்படுவதை உறுதி செய்ய வேண்டும். அவ்வப்போது அரசு தெரிவிக்கும் வழிகாட்டு நெறிமுறைகளை தவறாது பின்பற்றவேண்டும்.

மாவட்ட வருவாய் அலுவலர் மற்றும் வட்டாட்சியர், திருப்பேரூர் தாலுக்கா

16. மேற்படி தடையின்மை சான்று வழங்கப்படுகின்ற நீர்நிலைகளில் சட்ட விரோதமாக ஆக்கிரமிப்புகள் இருக்கும் பட்சத்தில் அதனை அகற்றிட நடவடிக்கை மேற்கொண்டு அதன் விவரத்தினை தெரிவித்திட கேட்டுக் கொள்ளப்படுகிறது.

17. மேலும் புனரமைப்பு பணிகள் மேற்கொள்ளவுள்ள நீர்நிலைகளின் எல்லைகளை உரிய முறையில் வரையறை செய்து பணிகள் துவங்கிட ஒத்துழைப்பு அளித்திட வேண்டும்.

மேலே குறிப்பிட்டுள்ள நிபந்தனைகளை கடைபிடிக்காமல் விண்ணப்பதாரர் மீறும் பட்சத்தில்

ROTARY ENVIRONMENT DISTRICT TEAM 3232, Chennai-600 102 என்ற அமைப்பிற்கு

வழங்கப்பட்ட அனுமதி இரத்து செய்யப்படும் எனவும் தெரிவிக்கப்படுகிறது.

17.2.23  
மாவட்ட ஆட்சித்தலைவர்/ பெருந்தலைவர்,  
மாவட்ட ஊரக வளர்ச்சி முகமை,  
செங்கல்பட்டு மாவட்டம்.  
5/1  
15/2/23

**பெறுநர் -**  
ROTARY ENVIRONMENT DISTRICT TEAM 3232,  
NO 51, G Block, 9<sup>th</sup> street,  
Anna Nagar East, Chennai - 600 102.

- நகல் -**
1. மாவட்ட வருவாய் அலுவலர், செங்கல்பட்டு.
  2. உதவி செயல்பொறியாளர், வட்டாங்கொளத்தூர் உபகோட்டம்.
  3. வட்டாட்சியர், திருப்பேரூர் தாலுக்கா
  4. வட்டாட்சியர் வளர்ச்சி அலுவலர் (வ.ஊ), திருப்பேரூர் வளர்ச்சி ஒன்றியம்.

மேற்படி தடையின்மை சான்று வழங்கப்பட்ட பணி தொடங்கப்பெற்றது குறித்தும், பணி முன்னேற்றம் குறித்து மாதாந்த அறிக்கை அளிக்கவும் கோள்வப்படுகிறார்கள்.

சென்னை மாவட்ட அமைச்சர் அலுவலகம், சென்னை-600 102  
 மருமரு 1002, மாவட்ட அமைச்சர் அலுவலகம், சென்னை-600 102  
 துணைநாயர், மேல்-வாய், யார் கட்டை சாலை, சென்னை-600 102  
 விளையாட்டுப் பல்கலைக்கழகம், வளாகத்தின் தெற்குப் பகுதியில், சென்னை-600 102  
 திட்டத்தின் கீழ் புதிய குளம் அமைத்து திட்ட வரைவியை, குறிக்க குளம் பணிகளை 1000  
 பங்களிப்பு தொகையுடன் மேற்கொள்ள ROTARY ENVIRONMENT DISTRICT TEAM 3232,  
 Chennai-600 102 என்ற அமைப்பிற்கு கீழ்க்கண்ட நிர்வாகணகளுடன் அனுமதி வழங்கி  
 உத்தரவிடப்படுகிறது.

நியந்தனைகள்

1. பெருநிறுவனங்களின் சமூக பொறுப்பு (Corporate Social Responsibility) திட்டத்தின்கீழ் வழிகாட்டு நெறிமுறைகளின்படி பணிகள் மேற்கொள்ளப்பட வேண்டும்.
2. குளத்தின் நீர்ப்பாப்பு எல்லையினை சுற்றியுள்ள பகுதியிலிருக்கும் குப்பைகள், கழிவுகள் மற்றும் பிற தேவையில்லா பொருட்களை அகற்றி ஏரிக்கு வெளியே குடியிருப்பு பகுதிகளுக்கும் மற்றும் பொதுமக்களுக்கும் பாதிப்பு ஏற்படாத வகையில் உள்ளூர் அமைப்புகளின் தூணையுடன் திட்டக்கமிவு மேலாண்மை நிலையத்திற்கு அனுப்பி வைத்திட வேண்டும்.
3. குளத்தின் நீர்ப்பாப்பு பகுதியிலிருந்து மண்வெட்டி எடுத்து அம்மண்ணைக்கொண்டு மட்டுமே கரையினை பலப்படுத்தப்பட வேண்டும். எக்காரணம் கொண்டும் குளத்திலிருந்து மண் வெளியே எடுத்துச்செல்லக் கூடாது.
4. குளம் அமைக்கப்படும் இடத்தின் மீதுள்ள செடி, கொடிகள், முடிசெடிகள் போன்றவற்றினை மட்டுமே அகற்ற வேண்டும். அப்பகுதியில் உள்ள பெரிய மரங்களை அதாவது புளிய மரம், வேப்ப மரம், அரசமரம் மற்றும் பனை மரம் போன்றவைகளை அகற்ற கூடாது.
5. குளத்தின் எதிர்வாயிலினைச் சுற்றி குப்பைகள், கழிவுகள் கொட்டப்படா வண்ணம் குளத்தின் எல்லையினை சுற்றி நீர் வரும் பாதையினை தவிர்த்து மண் கரை அமைக்க வேண்டும்.
6. குளம் அமைக்கப்படும் பகுதியில் மரக்கன்றுகள் நடவதும், அக்கன்றுகளை பராமரிப்பு செய்வதும், விண்ணப்பதாரரின் செலவு மற்றும் பொறுப்பாகும்.
7. குளத்தினை சுத்தப்படுத்தி தூர்வாரும் பணிகள் துவங்கும் முன் வட்டார வளர்ச்சி அலுவலர் (வ.உ) மற்றும் உதவி பொறியாளர், திருப்போரூர் ஊராட்சி ஒன்றியம் ஆதீயோடுக்கு தகவல் தெரிவிக்கப்பட வேண்டும்.
8. மேற்படி பணிகள் அனுமதி வழங்கப்படும் நாள் முதல் முன்று மாதத்திற்குள் முடிக்கப்பட வேண்டும்.
9. திருப்போரூர் ஊராட்சி ஒன்றிய உதவி பொறியாளரின் தொழில்நுட்ப ஆலோசனையின் பேரிலும் மற்றும் பல்கலைக்கழகத்தின் ஆலோசனையின் படியும் பணிகள் மேற்கொள்ளப்பட வேண்டும்.
10. குளத்தின் எல்லையினைச் சுற்றி சுற்றுலா அமைக்கும் முன்னர் ஊரக வளர்ச்சித் துறை வருவாய்துறை மற்றும் சம்பந்தப்பட்ட பல்கலைக்கழகத்தின் மூலம் எல்லையினை நிர்ணயம் செய்து பின்பு பணிகள் மேற்கொள்ளப்பட வேண்டும்.