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The institution has Long term Strategic Perspective Plan as well Annual Strategic Perspective Plan for continuous improvement and move towards the realization of vision, mission and core values. The strategic plan is deployed and reviewed from time to time by obtaining feedback from stake holders and various academic and administrative bodies. Institutional strategic plan and implemented strategic plan attached below:

S. No	Description	Page no.
1	Institution Strategic Plan	1
2	Implemented Strategic Plan	5

# 1. Institution Strategic Plan



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### Strategic Plan of the Institution

(AY 2020-21 to AY 2024-25)

The new millennium is going to witness unprecedented challenges and opportunities inTechnical Education. The Technical Education plays a vital role in human resource development of the country by creating skilled manpower, enhancing industrialproductivity and improving the quality of life. The Technical Educationcovers wide gamut of programs and specializations. To keep the faculty themselvesabreast of the state of the art technology, it is important that they inculcate the habitof innovation and research. This institute is keen to train the faculty to strengthentheir research activities and innovations.

#### A. Improvement in quality Technical Education:

In order to improve the quality of Technical Education, the institute is keen toobserve the educational system at IIT and International level and collaborate with them to strengthen its Teaching-Learning Process as well as Research. The Institute plans to improve to collaborate with the reputed Educational Institutes and Universities for:

1. Students exchange, Faculty exchange and Collaborative Research.

2. Experimental and Demonstrative Teaching Learning process to Impart skill-based education in the Institution.

3. To impart training to the faculty in pedagogy and relevant technical expertisefor further strengthening their teaching skills and keep themselves abreast with the latest developments.

4. To acquire Academic Autonomy to enable the Institute to design the curriculum so as to cater the needs of industry.

5. To participatein National Rankings and Surveys for National Exposure and recognition and to achieve better ranking.

#### B. Collaboration to impart Skill-based Education:

In order to impart skill-based education, the institute is already collaborated with ADIS ABABA, NOVAL PATENT SERVICES, TIE HYDERABAD, UI PATH ACADEMIC ALLIANCE, CL MEDIA, TIME, ITU, REDHAT, CISCO, SAKROBOTIX LAB, EDCIL, MICROSOFT INOVATION CENTER, INFOSYS LIMITED (CAMPUS CONNECTING PROGRAMME) & PEARSON VUE and has plans to collaborate with more industries, Reputed Institutes, Universities and Research organizations.

1. Each Department is planned to collaborate with premiere institutes like IITs/NITs for projects, summer trainings, internships and guest lectures.

2 Inter-disciplinary researches will be encouraged.

#### Long term and Medium term goals of the institution:

#### Accreditation & Ranking

- •NAAC accreditation with A+ grade by 2023
- •NBA accreditation of 50% of UG and programs by 2022
- •NBA accreditation of all UG programs by 2023
- •Autonomous status by June 2024

- a) Within top 150 Engineering Institutes by 2022
- b) Within top 100 Engineering by 2023
- c) Up gradation of ranking by 2025.

#### Research and Development

• 50% of the total faculty to be awarded with PhD degree by 2025.

•All of the faculty from each department should have at least two publication in SCI/SCOPUS/Web of Science in a year and the number of publication to be increased year by year.

• In the period 2020- 2025 total publication should be more than 500 +

- External research grant should be availed by each department.
- •Other grants from the different funding agencies should exist in all departments.

• Students research paper publication/ presentation in Journal/ Conference from each department to be increased.

• More Initiatives should be taken to encourage the students for Start-ups and entrepreneurship.

• Faculty members to be involved in consultancy work using their own expertise.

#### Library, ICT and Physical Infrastructure / Instrumentation

• Increase & development of Library materials in Physical and online form.

- •More number of Subscription of E-Journal & E-books to meet the clientele needs.
- Library infrastructure development.

•NDLI membership with library of renounced institutes, Universities, IIT's and remote access of e resources.

• Modernize all class rooms and laboratories.

•To save power.

#### Human Resource Management

•FDP, STTP, Workshop, seminar on IPR related programme.

•Outreach programme by each department one per semester, training in file management, clerical and secretarial works of non-teaching staff.

#### Industry Interaction / Collaboration

•Number of MOU with industries to be increased.

• Industry internship and special educational tour for students to be conducted more frequently.

• Industry sponsored Lab to be developed.

•More number of MOUs to be signed by each department with the academic and research organizations to increase the quality of academics and research in the Institution.

#### Outcome of Students/Placements

• More opportunity to create for International exposure of students.

<sup>•</sup>NIRF

- More students should be encouraged for higher studies.
- Involvement of the students in research activity should be increased.
- Participation in different level project and idea competition to be increased.
- Improve Placements in different core Sectors.

#### Teaching and Learning

- Introduction of new programs
- More market Relevant and futuristic skill based courses to be introduced
- Pedagogical Innovation to be encourages and introduce in teaching learning
- Use of ICT Technology to be increased





# 2. Implemented Strategic Plan



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#### The Institution has facilities for alternate sources of energy and energy Conservation measures <u>Renewable Energy Source: Solar Power Plant</u>

#### **Energy saving measures:**

- Energy management features are activated on computers, laser printers, etc., turn off lights when not used/required, use daylight.
- Use of LEDs, CFLs.
- Use fans when they are needed
- Unplug appliances like printers, faxes, chargers and electronic appliances, when they are not in use.
- Awareness among students and staff on energy conservation through display boards at appropriate places.

#### The institute met 56% of its total requirement of power consumption by the Institute from renewable sources.

- ▶ In the month of May 2018 Solar Plant was installed
- Solar plant capacity **300 kW**
- > The installation cost of total plant is 90,00,000 /-
- > Energy produced from the plant per year : **839.1 MWh/year**

General Details						
Total Capacity of the Plant	300KWp					
Roof used for the plant	20,000 Sq-Ft or 2,000 Sq-Mtr					
Average Sun Irradiance	4.89 KWh/Sq-Mtr/Day					
Expected Generation/Day	1000 to 1200 Kwh					
Solar Pan	els Details					
Total no. of panels	612 No's					
Capacity of each panel	325 Wp					
Make	Vikram Solar					
Technology & no. of cells	Polycrystalline, 72 cell					
Type of Busbar system	4 Busbar series type					
Working voltage	1000 VDC					
Type of connection of panels	In Series					
Panel Efficiency	18.5%					
Working Temperature Range	$-40^{\circ}$ c to $85^{\circ}$ c					
Panel Dimensions	1956x992x35.2 mm					
Weight of each panel	22 Kgs					
Inverte	r Details					
Total no. of Inverters	4 No's					
Capacity of each Inverter	50 KVA					
Type of Inverter	Solar ON-GRID					
Make	ABB					
Technology used	Maximum Power Point Tracking (MPPT)					
No. of MPPTs/Inverter	3 No's					
Weight of Inverter	125 Kgs					



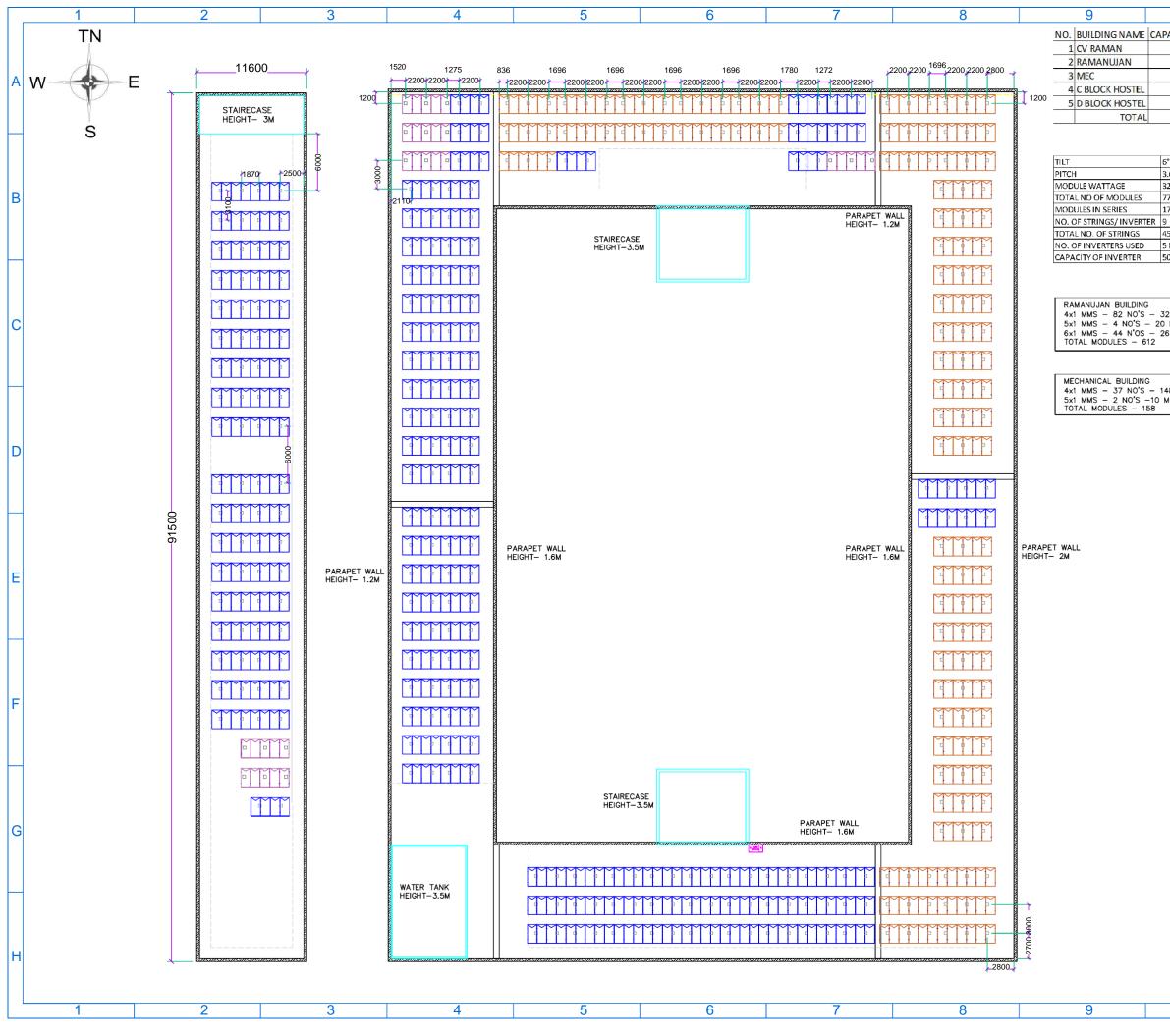


#### Geo tagged photos for Solar panels

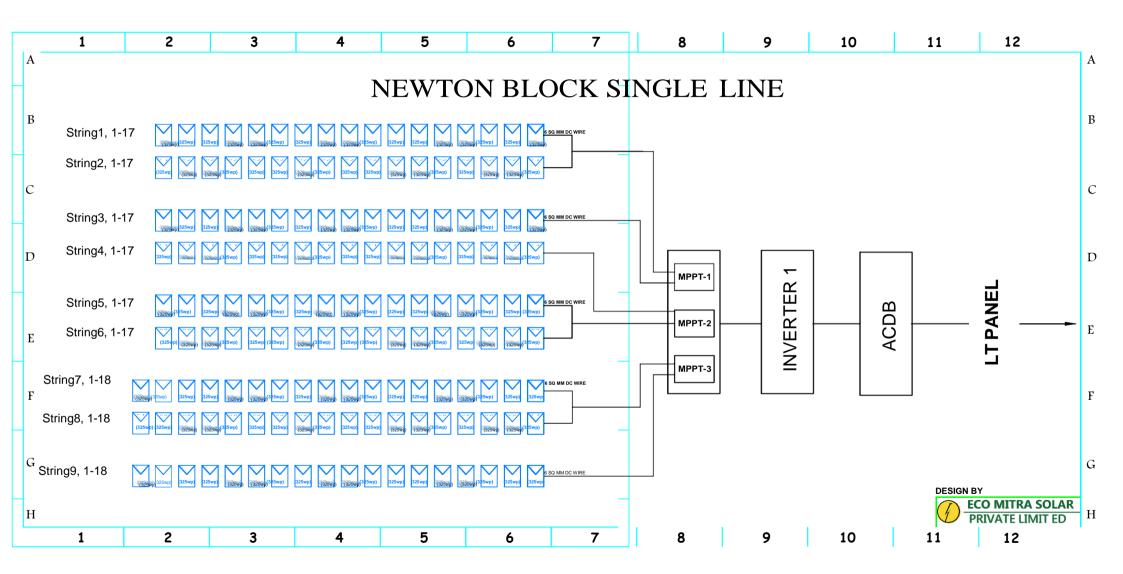


PRINCIPAL





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OKVA 28 Modules Modules 64 Modules			Sh	adow ooftop alls	ine Par	]	С
48 Modules Modules		rama		N	&	250KW	D
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10	)		11			12	





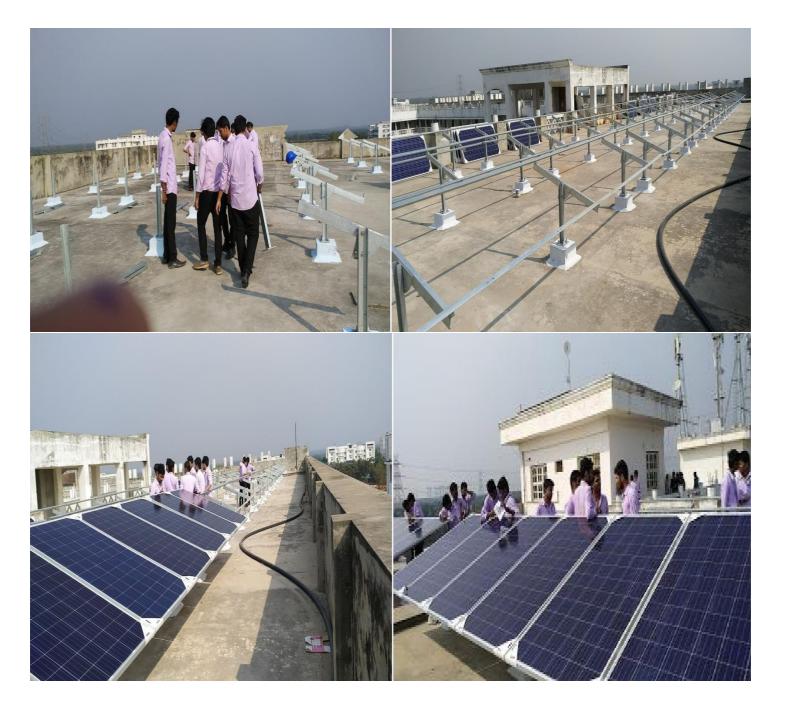
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#### **Students Participated while installing the solar panels**





PRINCIPAL





PRINCIPAL



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Aditya Nagar, ADB Road, Surampalem - 533 437, E.G.Dist., Ph: 99631 76662.

		Power bill comparati	ive statement after Ins	stallation of Solar panels	
S.No	Month	Total Consumption in KWH	From Grid in KWH	From Solar in KWH	Power Bill in Rs
1	Jan-18	77708	77708		7,06,226/
2	Feb-18	96262	96262		8,80,293/-
3	Mar- 18	134634	134634	Without Solar	14,06,761/-
4	Apr-18	106914	106914		8,97,158/-
5	May- 18	72501	72501	_	8,71,329/-
6	Jun-18	107287	23970	83317	3,30,494/-
7	Jul-18	128005	60567	67438	6,39.340/-
8	Aug-18	149321	97266	52055	9,27,438/-
9	Sep-18	138748	73629	65119	8,37,606/-
10	Oct-18	136761	65751	71010	8,04,625/-
11	Νον- 18	116857	54797	62060	5,63,805/-
12	Dec-18	103990	51210	52780	5,08,654/-
13	Jan-19	99036	33341	65695	3,68,318/-
14	Feb-19	116389	49424	66965	5,24,668/-



PRINCIPAL

								Sup	comer port : 1912	
HT DI	IGITAL B	ILL FOR	THE MON	TH OF No	ovember	2019	GST NO :	37AAACES	9876B1ZH	
Service Details Cons			sumer Details							
Contracted N	Contracted MD(KVA/HP) 300 (KVA/ HP) SC. No. RJY						DUE DATE FOR			
Specified Vo	• • •	11 KV	M/S SAROJ SOCIETY,		FIONAL		DATE -2019	PAYMENT 19-12-2019		
Actual Volta	ge		SURAMPAL					19-12	-2019	
Category		IIA COMMON		RAM TOWN						
Feeder Type	•	COMINION	EGDI							
Total Month	nly Consum	otion Details	6							
Particulars		кwн	KVAH	KVA	TOD PEAK	TOD OFF PEAK	COLONY	PF	LF	
Reading as on	01/12/2019	436467	438214.5	80.600	-	-	-	-	-	
Reading as on	01/11/2019		413028	-	-	-	-	-	-	
Difference	-	25107.5	25186.5	-	-	-	-	-	-	
Multiplying Factor	-	3	3	3.000	-	-	-	-	-	
Total Consumptio		75322	75559	241.800	20505	0.00	-	1	26	
Monthly Min Consumptio		-	6045	240.000	-	-	-	-	-	
Main Consumptio	n -	75559	-	-	-	-	-	-	-	
L & F Segregated	-	-	-	-	-	-	-		0.00	
Colony	_					_	0	-	-	
,										
	ss Consump									
	upplier Nam	ne					KVA Share		% Wheeling	
Solar Units				0		1750	8.000		0	
Billing Sum	mary									
	Particulars	Bill Issue Date	KVAH	KVA	TOD PEAK	TOD OFF PEAK	COLONY			
	Billed Units	05-12-2019	58052	241.800	20505	0.00	0			
	Dent					Dete D	or    !+	A	nt/Dc \	
Demand Ch	Particulars Demand Charges(Normal)						Rate Per Unit Amount 475		nt(RS.) 114855	
Demand Charges(Normal) Demand Charges(Penal)(80.6%)			241			950		14000		
	Energy Charges(All Units)				58052				444097.8	
Energy Exce	Energy Excess Charges								0	
Electricity Duty Charges			75560 0			0.06				
Colony Charges					0		0.00			
L&F Charges Energy Charges Including Fuel Cost Adjustment									0.00	
	rges Includin		Aujustment					555592F (10	0.00	
n nel onicita	ige aujustine	24Mar111111111111111		ennennennen an			an a			

ToD Charges	20505
ToD Incentive (-)	
Sub Tota	583991.4
Customer Charges	
Wheeling Charges	
LPF Charges	
RKVAH Surcharge Hyde	
RKVAH Surcharge Wind	
Open Access CSS	
ACD Surcharge	
Late Payment Charges	
Interest on ED	
Penal Interest	
Transformer Hire Charges	
Differential Voltage Surcharges	
Load Factor incentive (-)	
Short MD Shortfa	
Total For The Month	
25% Rebate Application	
Ferro Incentive(-)	
Pooled Cost Adj(-)	
Net ICD Amt(ICD-TDS)(0-0)(-)	
Other Credit Adj	
Loss (or) Gain	
NET BILL	585397
(Previous Years)Arrears before 31- Mar-2019	
(Current Years)Arrears after 01-Apr-2019	-0.12
Net Payable Rs.	585397
This is a system generated bill only for information , please refer to the bill issued by SAO of the circle only	(Rupees Five Lakhs Eighty Five Thousand ThreeHundred andNinety Seven Only

								Supp	omer port : 1912
HT DI	IGITAL B	ILL FOR	THE MON	TH OF De	ecember	2019	GST NO	: 37AAACE9	876B1ZH
Se	Service Details Con		sumer De	tails					
Contracted N	Contracted MD(KVA/HP) 300 (KVA/ HP) SC. No. RJY		/856				DUE DATE FOR		
Specified Vo	oltage(KVA)	11 KV	M/S SAROJ SOCIETY,	INI EDUCAT	FIONAL		DATE -2020	PAYMENT	
Actual Volta	ge		SURAMPAL	( )				19-01	-2020
Category			PEDDAPUR	AM TOWN					
Feeder Type	9	COMMON	E G DT						
Total Month	nly Consum	otion Details							
Particulars		KWH	KVAH	KVA	TOD PEAK	TOD OFF PEAK	COLONY	PF	LF
Reading as on	01/01/2020	462065	463959	77.260	-	-	-	-	-
Reading as on	01/12/2019	436467	438214.5	-	-	-	-	-	-
Difference	-	25598	25744.5	-	-	-	-	-	-
Multiplying Factor	-	3	3	3.000	-	-	-	-	-
Total Consumptio		76794	77233	231.780	20185.47	0.00	-	0.99	26
Monthly Min Consumptio		-	6000	240.000	-	-	-	-	-
Main Consumptio	n -	77233	-	-	-	-	-	-	-
L & F	-	-	-	-	-	-	-		0.00
Segregated Colony	-				-	-	- 0	-	-
							Ŭ		
	ss Consump		5						
	upplier Nam	ne		KWH Share	)	KVA Share		% Wheeling	
Solar Units				0		1808	6.000	(	)
Billing Sum	mary								
	Particulars	Bill Issue Date	KVAH	KVA	TOD PEAK	TOD OFF PEAK	COLONY		
	Billed Units	05-01-2020	59148	240.000	20185.47	0.00	0		
	Dort	ulare			ETAILS	Dete D	orlinit	٨٣٠٠٠	nt(Rc)
Demand Ch	Particulars Demand Charges(Normal)			Units Rate			Rate Per Unit Amount 475		114000
Demand Charges(Normal) Demand Charges(Penal)(80%)			0			950		000	
Energy Cha	rges(All Units				59148		7.65		452482.2
Energy Exce	Energy Excess Charges								0
Electricity D					77234		0.06		
	Colony Charges				0 0.00				0
L&F Charges Energy Charges Including Fuel Cost Adjustment									0.00
	rge Adjustme		ajustinen					1000000	0.00

ToD Charges	20185
ToD Incentive (-)	
Sub Tot	al 591301.24
Customer Charge	
Wheeling Charge	
LPF Charge	
RKVAH Surcharge Hyd	
RKVAH Surcharge Wir	
Open Access CS	
ACD Surcharg	je (
Late Payment Charge	25 (
Interest on E	
Penal Intere	st
Transformer Hire Charge	es
Differential Voltage Surcharge	es
Load Factor incentive	
Short MD Short	all
Total For The Mon	th 592707.2
25% Rebate Application	n
Ferro Incentive	
Pooled Cost Adj	
Net ICD Amt(ICD-TDS)(0-0)	(-)
Other Credit A	
Loss (or) Ga	in -0.24
NET BIL	L 592707
(Previous Years)Arrears before 31- Mar-20	0.0
(Current Years)Arrears after 01-Apr-20	
Net Payable Rs	
This is a system generated bill only for information , please refer the bill issued by SAO of the circle on	