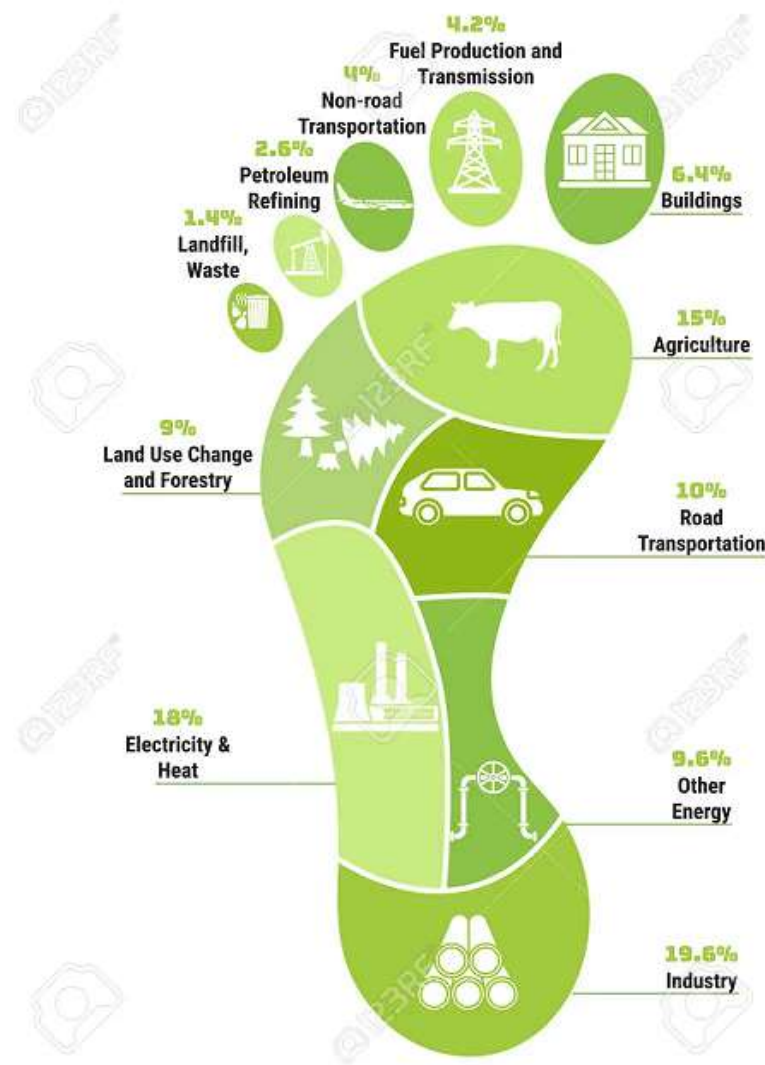




CARBON NEUTRALITY
NOT ZERO –NET ZERO



CARBON FOOTPRINT

S.No	Sources In SPMVV
1	Fans
2	LEDs
3	Electricity Consumption
4	ACs
5	Mess
6	Solar Roof Top
7	Solar street
8	Solar Power roof top 30Kw/90Kw
9	Jungle Report

1. FANS

2. General Details – 5 Star rated ceiling fans and Air Conditioners					
S.NO	Building Name	Fan Nos	Fan types	AC NOs	AC tonnage
1	Kalpana Chawla Science Block	54	5 star rated Ceiling Fan		
2	Physics Department	21	5 Star rated Ceiling Fan		
3	B.pharmacy building	153	5 Star rated Ceiling Fan		
4	Canteen	5	5 Star rated Ceiling Fan		
5	Kinnera Block	172	5 Star rated Ceiling Fan		
6	Kalyani Block	176	5 Star rated Ceiling Fan		
7	A mess	21	5 Star rated Ceiling Fan		
8	Gowthami block	103	5 Star rated Ceiling Fan		
9	Gangotri block	102	5 Star rated Ceiling Fan		
10	B mess	20	5 Star rated Ceiling Fan		
11	Sravanthi block	102	5 Star rated Ceiling Fan		
12	Gayathri block	132	5 Star rated Ceiling Fan		
13	Manjeera block	320	5 Star rated Ceiling Fan		
14	Visiting Hall	7	5 Star rated Ceiling Fan		

15	Security and swamp rooms	4	5 Star rated Ceiling Fan		
16	Swarnamukhi block	116	5 Star rated Ceiling Fan		
17	Staff quarters	20	5 Star rated Ceiling Fan		
18	Proff quarters	7	5 Star rated Ceiling Fan		
19	Sravanthi dining hall	19	5 Star rated Ceiling Fan		
20	New dining hall	66	5 Star rated Ceiling Fan		
21	Godavari block	72	5 Star rated Ceiling Fan		
22	All hostel security rooms		5 Star rated Ceiling Fan		
S.NO	Building Name	Fan Nos	Fan types	AC NOs	AC tonnage
23	Auditorium	10	5 Star rated Ceiling Fan	10	2.0 Ton
24	Humanities block	320	5 Star rated Ceiling Fan	24	1.5 Ton
25	Sericulture Department	39	5 Star rated Ceiling Fan	5	1.5 Ton
26	Saaveri guest house	60	5 Star rated Ceiling Fan	22	1.5 Ton
27	DDE Department	15	5 Star rated Ceiling Fan		
28	Computer Science(MCA)	33	5 Star rated Ceiling Fan	4	7.5 Ton
29	Administrative Building	120	5 Star rated Ceiling Fan	20	1.5 Ton

30	Visveswara block	262	5 Star rated Ceiling Fan	23	1.5 Ton
31	C.V Raman block	289	5 Star rated Ceiling Fan	5	1.5 Ton
32	K.L Rao block	127	5 Star rated Ceiling Fan	15	1.5 Ton
33	V.C residence	14	5 Star rated Ceiling Fan	7	1.5 Ton
34	Health centre	15	5 Star rated Ceiling Fan	2	1.5 Ton
35	Science block-I	98	5 Star rated Ceiling Fan	5	1.5 Ton
36	Library Building	100	5 Star rated Ceiling Fan		
37	Sub-station - I	4	5 Star rated Ceiling Fan		
38	Sub-station - II	2	5 Star rated Ceiling Fan		
39	MBA Building	42	5 Star rated Ceiling Fan		
40	Indoor stadium	16	5 Star rated Ceiling Fan		
41	Yoga class room	16	5 Star rated Ceiling Fan		
42	Animal house	8	5 Star rated Ceiling Fan	5	1.5 Ton
43	Science Block-III	98	5 Star rated Ceiling Fan	10	1.5 Ton
44	Humanities Block-II		5 Star rated Ceiling Fan	8	1.5 Ton
		3380		165	

3. LEDs

4. S.NO	BUILDING NAME	FLOUROSENT LIGHTS	LED TUBE LIGHTS
1	Humanities block-I	380.00	120.00
2	Sericulture department	27.00	25.00
3	Visveswara block	--	240.00
4	C.V Raman Block	--	400.00
5	K.L Rao Block	--	23.00
6	Health Center	20.00	3.00
7	Science Block-I	274.00	45.00
8	Kalpana Chawla Science Block	68.00	80.00
9	Science Block-III	--	148.00
10	MBA Building	51.00	25.00
11	Indoor Stadium	29.00	20.00
12	Yoga Class Room	14.00	6.00
13	Canteen	6.00	22.00
14	Kinnera Block	124.00	30.00
15	Kalyani Block	146.00	45.00
16	A Mess	41.00	10.00
17	Gowthami Block	98.00	31.00
18	Gangothri Block	98.00	30.00
19	B Mess	41.00	20.00
20	Sravanthi Block	133.00	41.00
21	Gayathri Block	150.00	40.00
22	Manjira Block	243.00	258.00
23	Visiting Hall	12.00	2.00
24	Swarnamukhi Block	132.00	32.00
25	Staff Quarters	22.00	--
26	Proff Quarters	--	10.00
27	Sravanthi Dinning Hall	23.00	--
28	New Dinning Hall	--	42.00

29	Godavari Block	71.00	20.00
30	All Hostel Security Rooms	35.00	5.00
31	Humanities Block II	--	80.00
Total		2238.00	1853.00
SUB STATION-II			
1	Administrative Building	200.00	141.00
2	Auditorium	86.00	20.00
3	Saaveri Guest House	31.00	124.00
4	Computer Center(MCA)	62.00	22.00
5	Physics Department	68.00	13.00
6	B.Pharmacy Building	288.00	30.00
7	Animal House	15.00	2.00
8	V.C Residence	7.00	16.00
9	DDE Department	30.00	--
10	Substation-II	3.00	2.00
Total		790.00	370.00
11	LED Street Lights 60W		100
12	LED Street Lights 45W		30
13	LED Street Lights 90W		20
Total			150

3. Electricity consumption

S.No	Name of Service	Service No	Contracted Load (KVA)	Category & Voltage Level (KV)	Available Transformer Capacity (KVA)	Available Diesel Generator	Capacity of the solar PV system Installed(KWp)	Name of the Building Connected to the Service
1	The Registrar ,SPMVV,TPT	TPT134	350	4B/11KV (Comm-Feeder)	315KVA-02Nos,200KVA -01 No (02 Nos are connected to Load and 01 is Stand By)	320KVA	90	All Hostel Buildings
								Examination Centre
								Nursing
								Library
								MBA
								Canteen
								Indoor Stadium
								DDE
								Humanities Block -I
								Music Mandhiram
								Gandhi Square
								Science Block -I
								Science Block -II
								Science Block -III
								Sericulture
								2
CV Raman Block B)								
Visvesvaraya Block C) KL								
Rao Block								
Humanities Block -II								
Multi Purpose Indoor Hall								
Science Block -IV								
Health Centre								
Administrative Building								
Auditorium								
V.C.Residence								
Saaveri Guest House								
Physics								
B-Pharmacy								
Computer Centre (MCA)								
Command Control Centre								
Lecturer Hall								

Sri Padmavathi Mahila VisvaVidyalayam (WOMEN'S UNIVERSITY), Tirupati

S.No	Service No	Contracted Load (KVA)	Category & Voltage Level (KV)	Available Transformer Capacity (KVA)	Capacity of the solar PV system Installed(KWp)	DETAILS	Electricity Consumption		Solar Export Units(KWh)	Billed Units (KWh)	Bill Amount (Rs.)
							KWH	KVAH			
1	TPT 134	350	4B/11KV (Comm-Feeder)	315KVA -02 Nos, 200KVA -01 No (02 Nos are connected to Load and 01 is Stand By)	90	Apr-18	117184.00	126508.00	0.00	126508.00	1038871.00
2						May -18	31322.00	37206.00	186.00	37020.00	426830.00
3						Jun -18	24001.00	26899.00	0.00	26899.00	559288.00
4						Jul -18	125580.00	134192.00	0.00	134192.00	1197942.00
5						Aug -18	137096.00	146360.00	0.00	146360.00	1304900.00
6						Sep -18	130634.00	139418.00	0.00	139418.00	1246729.00
7						Oct-18	75748.00	83818.00	194.00	83624.00	797188.00
8						Nov -18	124158.00	132702.00	0.00	132702.00	1196675.00
9						Dec -18	112408.00	120830.00	2.00	120828.00	1097146.00
10						Jan -19	78434.00	86564.00	462.00	86102.00	824250.00
11						Feb -19	122050.00	129334.00	0.00	129334.00	1172397.00
12						Mar -19	151726.00	159866.00	0.00	159866.00	1407197.00
						Total	1230341.00	1323697.00	844.00	1322853.00	12269413.00

Annual Power Consumption Details (2019-2020)

S.No	Service No	Contracted Load (KVA)	Category & Voltage Level (KV)	Available Transformer Capacity (KVA)	Capacity of the solar PV system Installed(KWp)	DETAILS	Electricity Consumption		Solar Export Units(KWh)	Billed Units (KWh)	Bill Amount (Rs.)
							KWH	KVAH			
1	TPT 134	350	4B/11KV (Comm-Feeder)	315KVA -02 Nos, 200KVA -01 No (02 Nos are connected to Load and 01 is Stand By)	90	Apr-19	100774.00	107408.00	0.00	107408.00	886619.00
2						May -19	63006.00	70448.00	6.00	70442.00	689172.00
3						Jun -19	56878.00	63138.00	24.00	63114.00	631297.00
4						Jul -19	125078.00	132610.00	0.00	132610.00	1190181.00
5						Aug -19	120244.00	127600.00	0.00	127600.00	1142568.00
6						Sep -19	129376.00	136022.00	0.00	136022.00	1213378.00
7						Oct-19	87640.00	93306.00	472.00	92834.00	866832.00
8						Nov -19	136240.00	142376.00	4.00	142372.00	1260381.00
9						Dec -19	119946.00	125498.00	0.00	125498.00	1132577.00
10						Jan -20	87686.00	92674.00	842.00	91832.00	874282.00
11						Feb -20	125922.00	131562.00	0.00	131562.00	1195000.00
12						Mar -20	102524.00	107812.00	886.00	106926.00	998651.00
						Total	1255314.00	1330454.00	2234.00	1328220.00	12080938.00

Annual Power Consumption Details (2020-2021)

S.No	Service No	Contracted Load (KVA)	Category & Voltage Level (KV)	Available Transformer Capacity (KVA)	Capacity of the solar PV system Installed(KWp)	DETAILS	Electricity Consumption		Solar Export Units(KWh)	Billed Units (KWh)	Bill Amount (Rs.)
							KWH	KVAH			
1	TPT 134	350	4B/11KV (Comm-Feeder)	315KVA -02 Nos, 200KVA -01 No (02 Nos are connected to Load and 01 is Stand By)	90	Apr-20	13172.00	15860.00	4086.00	11774.00	119014.00
2						May -20	12056.00	15544.00	3486.00	12058.00	230991.00
3						Jun -20	16114.00	20098.00	828.00	19270.00	288759.00
4						Jul -20	12018.00	14782.00	2316.00	12466.00	234259.00
5						Aug -20	11494.00	14420.00	1918.00	12502.00	234547.00
6						Sep -20	13918.00	17014.00	1262.00	15752.00	260580.00
7						Oct-20	14708.00	18546.00	1200.00	17346.00	273347.00
8						Nov -20	44896.00	49982.00	164.00	49818.00	533488.00
9						Dec -20	46936.00	52042.00	28.00	52014.00	551038.00
10						Jan -21	37720.00	40868.00	706.00	40162.00	456104.00
11						Feb -21	63370.00	68018.00	2.00	68016.00	679214.00
12						Mar -21	91634.00	97088.00	0.00	97088.00	912081.00
						Total	378036.00	424262.00	15996.00	408266.00	4773382.00

Sri Padmavathi Mahila VisvaVidyalayam (WOMEN'S UNIVERSITY), Tirupati

S.No	Service No	Contracted Load (KVA)	Category & Voltage Level (KV)	Available Transformer Capacity (KVA)	Capacity of the solar PV system Installed(KWp)	DETAILS	Electricity Consumption		Solar Export Units(KWh)	Billed Units (KWh)	Bill Amount (Rs.)
							KWH	KVAH			
1	TPT 388	160	4B/11KV (Comm-Feeder)	250KVA-01 No, 200KVA - 01 No	30	Apr-18	30860.00	31100.00	0.00	31100.00	292180.00
2						May -18	19360.00	19480.00	0.00	19480.00	200600.00
3						Jun -18	26200.00	26440.00	0.00	26440.00	262356.00
4						Jul -18	31960.00	32200.00	0.00	32200.00	320642.00
5						Aug -18	31980.00	33200.00	20.00	33180.00	319155.00
6						Sep -18	25080.00	25340.00	0.00	25340.00	252342.00
7						Oct-18	23980.00	24300.00	0.00	24300.00	246339.00
8						Nov -18	20000.00	20300.00	0.00	20300.00	207019.00
9						Dec -18	19760.00	20120.00	20.00	20100.00	205391.00
10						Jan -19	16440.00	16720.00	80.00	16640.00	178323.00
11						Feb -19	22100.00	22500.00	40.00	22460.00	231782.00
12						Mar -19	31800.00	32200.00	20.00	32180.00	324672.00
						Total	299520.00	303900.00	180.00	383720.00	3040812.00

Annual Power Consumption Details (2019-2020)											
S.No	Service No	Contracted Load (KVA)	Category & Voltage Level (KV)	Available Transformer Capacity (KVA)	Capacity of the solar PV system Installed(KWp)	DETAILS	Electricity Consumption		Solar Export Units(KWh)	Billed Units (KWh)	Bill Amount (Rs.)
							KWH	KVAH			
1	TPT 388	160	4B/11KV (Comm-Feeder)	250KVA-01 No, 200KVA -01 No	30	Apr-19	25020.00	25360.00	0.00	25360.00	238649.00
2						May -19	30740.00	31080.00	0.00	31080.00	317213.00
3						Jun -19	29060.00	29360.00	0.00	29360.00	344404.00
4						Jul -19	32880.00	33680.00	0.00	33680.00	388001.00
5						Aug -19	27400.00	28680.00	0.00	28680.00	341540.00
6						Sep -19	28060.00	30820.00	0.00	30820.00	360495.00
7						Oct-19	19100.00	20280.00	60.00	20220.00	304806.00
8						Nov -19	24595.00	25353.00	0.00	25353.00	260348.00
9						Dec -19	20028.00	20943.00	2.00	20935.00	226172.00
10						Jan -20	16999.00	18207.00	111.00	18096.00	204095.00
11						Feb -20	22316.00	25168.00	8.00	25160.00	259282.00
12						Mar -20	23136.00	24944.00	38.00	24906.00	257553.00
						Total	299334.00	313875.00	225.00	313650.00	3582558.00

Annual Power Consumption Details (2020-2021)

S.No	Service No	Contracted Load (KVA)	Category & Voltage Level (KV)	Available Transformer Capacity (KVA)	Capacity of the solar PV system Installed(KWp)	DETAILS	Electricity Consumption		Solar Export Units(KWh)	Billed Units (KWh)	Bill Amount (Rs.)
							KWH	KVAH			
1	TPT 388	160	4B/11KV (Comm-Feeder)	250KVA-01 No, 200KVA - 01 No	30	Apr-20	9978.00	10262.00	141.00	10121.00	115148.00
2						May -20	11217.00	11638.00	102.00	11536.00	154609.00
3						Jun -20	15241.00	15728.00	17.00	15711.00	188051.00
4						Jul -20	11672.00	11832.00	35.00	11797.00	156700.00
5						Aug -20	12632.00	12840.00	16.00	12824.00	164926.00
6						Sep -20	13564.00	13820.00	22.00	13798.00	172728.00
7						Oct-20	14315.00	14676.00	8.00	14668.00	179697.00
8						Nov -20	17076.00	17723.00	24.00	17699.00	203975.00
9						Dec -20	16810.00	17556.00	18.00	17538.00	202685.00
10						Jan -21	16525.00	17377.00	70.00	17307.00	201329.00
11						Feb -21	18979.00	19711.00	0.00	19711.00	220584.00
12						Mar -21	24298.00	27197.00	0.00	27197.00	281278.00
						Total	182307.00	190360.00	453.00	189907.00	2241710.00

4. ACs

SL.No	Building Name	Quantity of A/Cs Installed	Capacity of A/C(in Tons)	Total A/C Load(in Tons)
1	Auditorium	10	1.5 Ton	15.00
2	Administrative Building	20	1.5 Ton	30.00
3	Saveri Guest House	22	1.5 Ton	33.00
4	V.C Residence	7	1.5 Ton	10.50
5	Computer centre (MCA)	5	7.5 Ton(2.Nos) 1.5 Ton(3.Nos)	19.50
7	Science block-I	5	1.5 Ton	7.50
8	Science block-II	13	1.5 Ton	19.50
9	Science block-III	10	1.5 Ton	15.00
10	Visveswara Block(Engineering College)	23	1.5 Ton	34.50
11	C.V Raman Block(Engineering College)	3	1.5 Ton	4.50
12	C.V Raman Block(Engineering College)	2	1.5 Ton	3.00
13	K.L Rao Block Engineering College)	15	2.0 Ton	30.00
14	Health Centre	2	1.5 Ton	3.00
15	Animal House	5	1.5 Ton	7.50
16	Humanities Block	10	1.5 Ton	15.00
17	Sericulture Department	5	1.5 Ton	7.50
	Upcoming Proposed Buildings			
18	Science block-IV	10	1.5 Ton	15.00
19	Humanities Block-II	10	1.5 Ton	15.00
20	Lecturer Hall	8	1.5 Ton	12.00
21	Central Networking Facility	20	2.0 Ton	40.00
		205		337.00

5.Details of Mess &Total no of Hostel Students of Sri Padmavathi Mahila University

S.No	Description	Mess-A	Mess - B	Mess-C
1	Capacity of thee Meals Cooking Per Session	1200	1100	1200
2	No.of LPG Cyllinders are used for cooking per day	4	4	5
3	Type of LPG (Domestic /Commercial	Domestic (15 kgs)	Domestic (15 kgs)	Domestic (15 kgs)
4	Fuel used in boiler for Steam Generation	wood	wood	wood
5	Quantity of Wood used per Hour (in kgs)	30	30	30
6	No.Of Boilers Operating in each kitchen	1	1	1
7	Boiler Operating Timings			
	Morning	4.00 Am to 10.00 Am	4.00 Am to 10.00 Am	4.00 Am to 10.00 Am
	Afternoon	12.00 Pm to 4.00 Pm	12.00 Pm to 4.00 Pm	12.00 Pm to 4.00 Pm
8	Total No of Boiler operating timings per day(Hrs/day)	10	10	10
9	Total consumption of wood per day (in kgs)	300	300	300
10	No of Steam Vessels available in kitchen	5	4	5
11	No of Idly steam vessels in Kitchen	2	2	1
12	Quantity of Items cooked per session			
	Rice (in Kgs)	75	75	75
	Dal (in kgs)	25	25	25
	Vegetables (in kgs)	10	10	10
	Milk(in ltrs)	100	100	100
13	No.Of LPG Stoves in Kitchen	6	5	6
14	No.Of Tawa stoves in Kitchen	3	3	3

6. SOLAR PV ROOFTOP NET METERING SYSTEM IN SRI PADMAVATHI MAHILA VISVAIDYALAYAM, TIRUPATI

S.NO	DESCRIPTION	30 KWP	90KWP
1	LIFE OF THE SYSTEM	25 YEARS	25 YEARS
2	CAPACITY OF THE SYSTEM	30 KWP	90 KWP
3	SOLAR PLANT INSTALLED ON	ADMINISTRATION BUILDING	HUMANITIES BUILDING
4	AREA COVERED	300 Sq.Mtrs.	900 Sq. Mtrs.
5	COST OF THE PROJECT	Rs. 30,00,000/-	Rs. 62,10,000/-
6	SUBSIDY	Rs. 9,00,000/-	Rs. 12,42,000/-
7	NET AMOUNT	Rs. 21,05,618/-	Rs.51,82,245/-
8	AVERAGE No. UNITS GENERATED PER DAY	135 KWH (Units)	405 KWH (Units)
9	AVERAGE No. UNITS GENERATED PER MONTH	4,050 KWH (Units)	12,150 KWH (Units)

7.SOLAR STREET LIGHTS

Details given below:

S.No	Following Places	Nos
1.	Kinnera (Block-A)	1 No
2.	Kalyani (Block-B)	1No
3.	Gowthami Block	1 No
4.	Gangotri Block	1 No
5.	Swarnamukhi hostel	1 No
6.	Sravanthi Block	1 No
7.	Gayathri Block	1 No
8.	Manjira Block	1 No
9.	Vice Chancellor's Residence	1 No
10	Main Gate (near V.C's Residence)	1 No
11	Sub Station - I	1 No
12	Sub Station - II	1 No
Total		12 Nos

} Hostels

8.30KW Solar Power roof top net metering system at AD Building in SPMVV, TPT

For the year 2020-21

	30 KW	Grid	Total Units
	Import Units	Export Units	
Apr-20	2730	141	2871
May-20	2591	102	2693
Jun-20	2033	17	2050
Jul-20	2246	35	2281
Aug-20	2076	16	2092
Sep-20	2112	22	2134
Oct-20	2233	8	2241
Nov-20	1957	24	1981
Dec-20	2106	18	2124
Jan-21	2261	70	2331
Feb-21			0
Mar-21			0
		Total	22798

JUNGLE REPORT

Total Number of Trees -350

Total Number of Shrubs – 40-50

Herbs – 150 species

Rare Species -6

- 1. Cycas beddomei – Cycadaceae**
- 2. Cycas spherical – cycadaceae**
- 3. Cordia dichotoma – Borapinnaceae**
- 4. Indigofera barbari – Fabaceae**
- 5. Pterocarpus mousupium - Fabaceae**
- 6. Pterocarpus santalinus - Fabaceae**

7.TOTAL JUNGLE AREA : 28 ACRES



PHARMACY SORROUNDINGS : 15 ACRES



COMPUTER SCIENCE SORROUNDINGS : 5 ACRES



IN BETWEEN SERICULTURE &ENGINEERING : 8 ACRES



