



**Centurion**  
**UNIVERSITY**  
*Shaping Lives...*  
*Empowering Communities...*

**Centurion University of Technology & Management, Odisha**

## **WHEELING TO THE GRID REPORT**



## ACKNOWLEDGEMENT

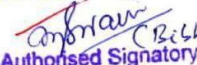
Power Tech Consultants (PTC) places on record its sincere thanks to Centurion University of Technology & Management for entrusting the task of conducting the Investment Grade Energy Audit of Centurion University of Technology & Management (CUTM), Paralakhemundi.

PTC acknowledges with gratitude the wholehearted support and encouragement given by all CUTM officials while carrying out the energy efficiency study at CUTM.

PTC acknowledges with gratitude and sincerely thanks all the officials and staff members of Centurion University of Technology & Management who have rendered their all possible co-operation and assistance to the study team during the entire period of the Audit.

Our special thanks to Dr. Anita Patra (Registrar), Prof. Durga Padhi, Prof. Asish Ranjan Dash, Mr. S. Ranjit Singh (Chief Technical Officer), Mr. Ramesh Sahoo and the Energy Conservation Cell Members for their whole hearted co-operation and guidance in carrying out the Investment Grade Energy Audit of CUTM, Paralakhemundi.

M/s. Power Tech Consultants

  
Authorised Signatory

### Signature

**Bibhu Charan Swain**

**Sr. Consultant**

**Accredited Energy Auditor**

**Regd. No - AEA-0121**

**Power Tech Consultants**

**K-8-82, Kalinga Nagar, Ghatikia, Bhubaneswar-751029, Odisha**

**Phone: 0674-2954256**

**Mobile: 9937112760, 9437155337**

**Email: [pwrtech@gmail.com](mailto:pwrtech@gmail.com), Website: [www.pwrtech.com](http://www.pwrtech.com)**





### AUDIT TEAM DETAILS

1. Mr. Bibhu Charan Swain, Sr. Consultant & Accredited Energy Auditor, Regd. No. – AEA-0121
2. Mr. Nilamani Behera, Sr. Consultant, Energy Auditor
3. Mr. Nirjhar Biswal, Assistant Manager (Project)
4. Mr. Suraj Kumar Bhujabala, Assistant Manager (Project)
5. Mr. Suresh Gurjar, Project Associate

### CERTIFICATE

We certify the following

- The data collection has been carried out diligently and truthfully.
- All data measuring devices used by the auditor are in good working condition, have been calibrated and have valid certificate from the authorized approved agencies and tampering of such devices has not occurred.
- All reasonable professional skill, care and diligence had been taken in preparing the energy audit report and the contents thereof are a true representation of the facts.
- The investment grade energy audit has been carried out in accordance with the BEE prescribed norms.

M/s. Power Tech Consultants

*Bibhu Charan Swain*  
Authorised Signatory

Signature

**Bibhu Charan Swain**

**Sr. Consultant**

**Accredited Energy Auditor**

**Regd. No – AEA-0121**

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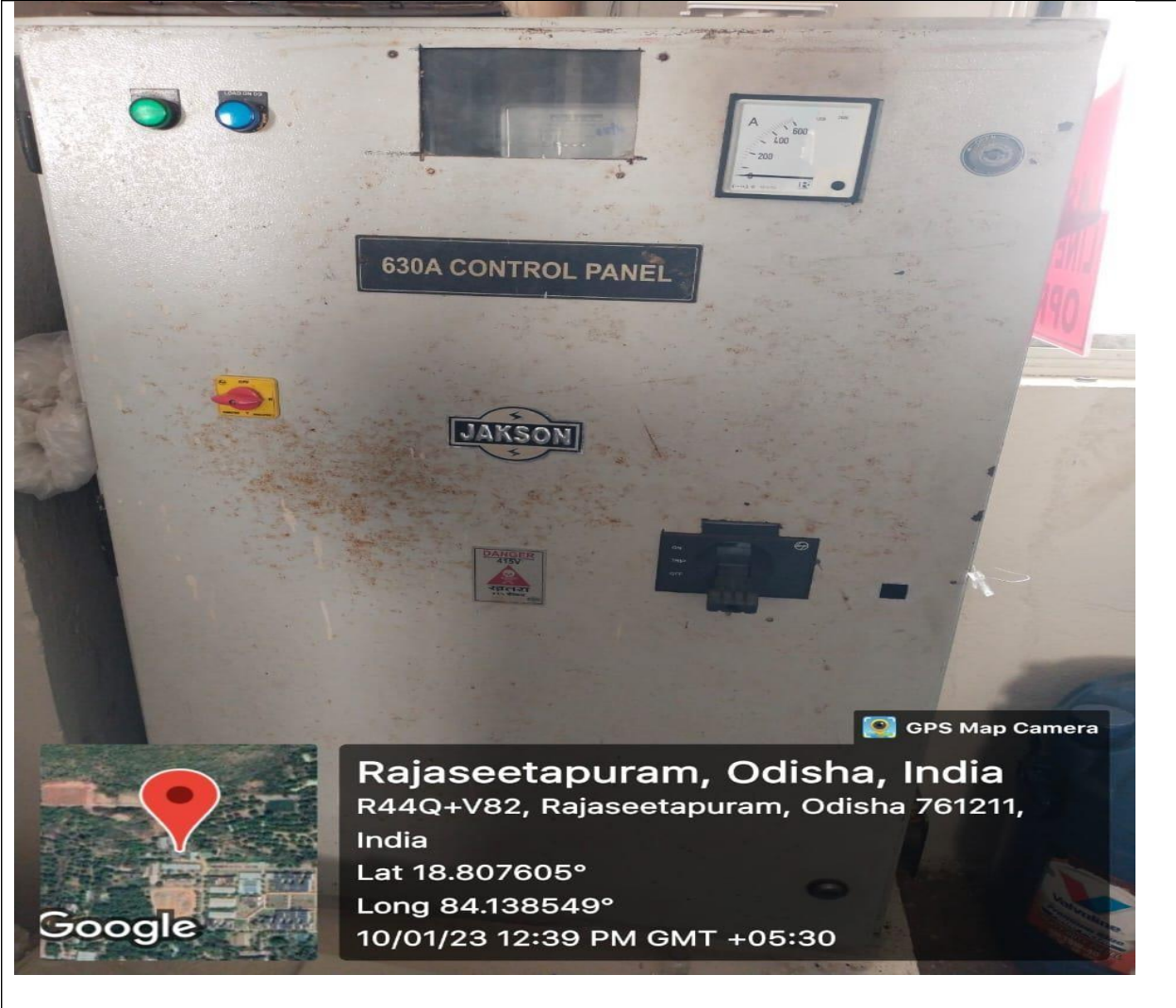
**Mobile: 9937112760, 9437155337**

**Email: [pwrtch@gmail.com](mailto:pwrtch@gmail.com), Website: [www.pwrtch.com](http://www.pwrtch.com)**





The Institute has facilities for alternate sources of energy and energy conservation measures.



**Rajaseetapuram, Odisha, India**

R44Q+V82, Rajaseetapuram, Odisha 761211, India

Lat 18.807605°

Long 84.138549°

10/01/23 12:39 PM GMT +05:30

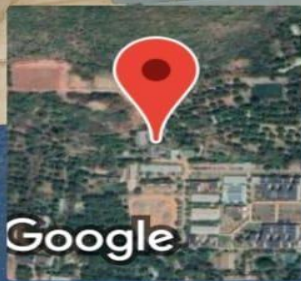




**LT Control Panel**



GPS Map Camera



**Rajaseetapuram, Odisha, India**  
R44Q+V82, Rajaseetapuram, Odisha 761211,  
India  
Lat 18.807717°  
Long 84.138509°  
10/01/23 12:40 PM GMT +05:30

**HT Control Panel**



Property of "SOUTHCO Utility"  
P.O. No.: SOUTHCO/HTTV Meter /  
PO No. 37/2017-18/No. 2134(6)  
P.O. Date: 23-Feb.-2018  
Manufacturer: SECURE METERS LIMITED

GPS Map Camera



**Rajaseetapuram, Odisha, India**  
R44Q+V82, Rajaseetapuram, Odisha 761211,  
India  
Lat 18.808014°  
Long 84.138463°  
10/01/23 12:44 PM GMT +05:30

**NET Metering**



*Anita Patra*  
Registrar, CUTM  
REGISTRAR  
Centurion University of  
Technology & Management  
ODISHA

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(A Tata Power and Odisha Government Joint Venture)

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1912 / 1800 345 6797  
www.tpsouthernodisha.com



BILL OF SUPPLY FOR ELECTRICITY

Consumer Name : THE REGISTRER(CUTM) UPPALADA	Rebate Date : 07/01/2022
Address Details : PARALAKHEMUNDI,	Due Date : 11/01/2022
Email Id :	Consumer A/c No. : 312000000022
Mobile No :	Consumer ID : 3120000022
	Old Consumer No. : 11PI
	Bill Number : 312000001221455707
	Bill Issue Date : 04/01/2022
	Bill Basis : ACTUAL
	Last Bill Issue Date : 01/12/2021
	Bill Month : 2021/12

Area Details	Connection Details	Supply and Meter Details
Division : PKED PARLAKHEMUNDI	Tariff Category : SPECIFIED PUBLIC PURPOSE	Power Factor : 0.9706
Sub-Division : UPPALADA	Category Type : HT	Power ON Hour : 744
Section : ESO UPALADA	Contract Demand : 850 KVA	Billable Demand-KVA : 680.000
DT No. :	Supply Voltage : 33 KV	Meter Sl. No. : ORU43670
Pole No. :	Own Transformer : NO	Col. Meter No. :
MRU No. :	ED Exemption : NO	Bill Period : 01/12/2021 - 31/12/2021
Walking Sequence :	Date of Connection : 08/11/2019	Bill Days/Months : 31/1.0000
Organization Type :	Security Deposit : 14,52,000.00	Load Factor : 38.3800
Connection Type :	Metering Side : HT	Meter Reading : ACTUAL METER
	Consumer Status : Active	Reliability Index : -NA-
	Transformer Rating : 0 KVA	Voltage Profile : YES

Meter Reading Details						
Parameter	Prev Reading	Current	M.F.	Diff	T.F Loss	Total
KWH	1,512.0550	1,581.2800	1,200.00	69.2250	0.00	83,070.0000
MD-KW	0.0000	0.0000	1,200.00	0.0000	0.00	0.0000
KVAH	1,562.7300	1,634.0460	1,200.00	71.3160	0.00	85,579.0000
MD-KVA	2.7004	0.2296	1,200.00	0.0000	0.00	275.5200
Off Peak KWH	434.5700	455.0250	1,200.00	20.4550	0.00	24,546.0000
Off Peak KVAH	446.2600	467.1800	1,200.00	20.9200	0.00	25,104.0000
Off Peak MD-KW	0.0000	0.0000	1,200.00	0.0000	0.00	0.0000
Peak KWH	1,077.4850	1,126.2550	1,200.00	48.7700	0.00	58,524.0000
Peak KVAH	1,116.4700	1,166.8660	1,200.00	50.3960	0.00	60,475.2000
Peak MD-KW	0.0000	0.0000	1,200.00	0.0000	0.00	0.0000
Off Peak MD-KVA	0.2100	0.1836	1,200.00	0.0000	0.00	220.3200
Peak MD-KVA	0.3220	0.2296	1,200.00	0.0000	0.00	275.5200
KVARH	253.9300	267.9800	1,200.00	14.0500	0.00	16,860.0000
KVARH Lead	48.0950	48.1000	1,200.00	0.0050	0.00	6.0000

Due Date: 11/01/2022  
(Immediate for Arrears)  
Total Amount Payable  
Rs. 6,63,929.00

Disclaimer: Consumption inclusive of Solar, Open access, Colony and Multi meter, please see Annexure below.

Last Bill Amount	Payment Made	Rebate	Net Arrear Rs.	Current bill amount	Adj/Inst	Net Payable Amount Before Rbt. Dt.(Rs.)	Net Payable Amount After Rbt. Dt.(Rs.)
10,55,741.00	10,45,844.00	-9896.25		0.00	6,63,928.75	-0.00	6,57,664.00

Current Bill Details			
a. Energy Charges	4,60,237.05	1. Sundry Adjustment	
Slab 1 - KVAH 78673@ 5.85 4,60,237.05		Debit	0.00
		Credit	0.00
		2. Interest on SD(After TDS)	0.00
		3. Miscellaneous Charge	0.00
b. Incentive on TOD	-5,020.80	4. Total Current Bill(Aft Adj/Inst)	6,63,928.75
		5. Rebate Allowable	
c. Demand Charge / MMFC	1,70,000.00	Prompt Payment+Rural+Special	-6,264.66
d. Overdrawal penalty	0.00000	6. Net Current payment after Rebate	6,57,664.00
e. Penalty for Fall in PF 0%	0.00	Digital Payment Rebate	0.00
f. Power Factor Incentive	0.00	7.Net Current payment after Digital	6,57,664.00
g. Colony KvaH charge	0.00	8. Cross Subsidy Charges	0.00
h.Load Factor Rebate/ Special Discount	0.00 / 0.00	9. Disputed Amount	0.00
i. Electricity Charge (a-b+c+d+e-f+g+h)	3,25,216.25	10. Last Rebate Allowed	9896.25
j. Electricity Duty (8%)	36,417.30	11. ASD Claimed	0.00
k. Delayed Payment Surcharge	0.00	<b>Message</b>	
l. Meter Rent	1,000.00	1. The connection shall be liable for disconnection on non-payment of all dues(including arrears of previous bill(s) by due date, after notice as per Section 56(1) of the Electricity Act,2003. 2. Cheque/bank draft is to be issued in favour of TPSODL. 3. Disputed amount is to be finalised on the outcome of the order of the respected court and the applicable. 4. ECS Opt-in. 5.Date wise last 5 payments detail with component wise adjustment are shown in annexure (second page). Payments has been clubbed in case of more than 5 payments from last billing cycle. 6 For FY 2020-21, final TCS amount will be intimated after reconciliation. From FY 2021-22, TCS shall be levied based on collection.	
m. Customer Service Charge	250.00		
n. R.I. Surcharge	0.00		
o. Tax Collection at Source	1,045.20		
p. Current Total (i+j+k+l+m+n+o)	6,63,928.75		

Division Office OFFICE OF THE EXECUTIVE ENGINEER(ELECT.)TPSODL, PARLAKHEMUNDI ELECTRICAL DIVISION, NEAR RTO OFFICE, GAJAPATI-761200	Connect at www.tpsouthernodisha.com	Connect us 1912/ 1800 345 6797
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**Customer Information Sheet**

CA No.	312000000022	Invoice Number	312000001221455707
Name	THE REGISTRER(CUTM) UPPALADA	Invoice Date	04/01/2022

Meter No	Last rdng Dt	Curr rdng Dt	Parameter	Prev Reading	Curr Reading	M.F.	Diff	T.F Loss	Total
ORU43670	30/11/2021	31/12/2021	SOLAR-KVAH	177.4550	183.2100	1200.0000	5.755	0	6906.0000
ORU43670	30/11/2021	31/12/2021	SOLAR-KWH	159.2400	164.4550	1200.0000	5.215	0	6258.0000

**Tariff Structure (Charges applicable from 04.04.2021)**

Consumer Category	Units per month	Energy Charge	MMFC first kW or part	MMFC on additional kW or	Consumer Category	Energy Charge(kVAH)	Demand Charge (kVA)	Customer Service Charge	
<b>LT Category</b>					<b>EHT Category</b>				
Kutir Jyoti			80		General Purpose	As per Load Factor **	250	700	
Domestic Others	<=50 units	3.00	20	20	Large Industry				
	>50, <=200	4.80			Railway Traction				
	>200, <=400	5.80			Heavy Industry				
	>400 units	6.20			Power Intensive Industry				
General Purpose <110 kVA	<=100 units	5.90	30	30	Mini Steel Plant				
	>100, <=300	7.00			Emergency Supply to CGP	7.70			
	>300 units	7.60			Colony consumption	4.85			
Irrigation Pumping & Agri	1.50	20	10	Load Factor(%)	* HT	**EHT			
Allied Agri Activity	1.60	20	10	=<60%	5.85	5.80			
Allied Agro-Industrial Activity	4.70	80	50	>60%	4.75	4.70			
Public Lighting	6.20	20	15	<b>HT Category</b>					
LT Industrial (S) <22 KVA	6.20	80	35	Bulk Supply - Domestic	4.90	20	250		
LT Industrial (M) >=22 KVA, <110 kVA	6.20	100	80	Irrigation Pumping & Agri	1.40	30			
Specified Public Purpose	6.20	50	50	Allied Agri Activity	1.50	30			
Public Water Works & Sewage Pumping <110 kVA	6.20	50	50	Allied Agro-Industrial Activity	4.60	50			
Public Water Works & Sewage Pumping >=110	6.20	200 (Demand Charges)	30 (Customer Service Charges)	Emergency Supply to CGP	7.80				
General Purpose >=100 kVA				Colony consumption	4.90				
Large Industry				HT Industrial (M) Supply		150	250		
<b>Customer Complaint Management</b>					General Purpose >70, <=110 kVA	As per Load Factor *	250	250	
Grievance Redressal Forum(GRF), Near Depoul School, Engineering School Road, Berhampur, Ph- 0680-2296167					General Purpose >110 kVA				
Grievance Redressal Forum(GRF) Power House Colony, Jeypore, Odisha. Ph- 06854-241276					Public Water Works & Sewage				
Office of the Ombudsman-II (TPSODL) Qrs. No. 3RS/2 GRIDCO Colony, Po- Bhoi Nagar, Bhubaneswar -751032 Ph- 0674 - 2549625					Large Industry				
					Power Intensive Industry				
					Mini Steel Plant Railway Traction				
<b>Energy Saving &amp; Safety TIPS</b>					<b>Give a missed call at 7008 80 8888 for availing New connection services.</b>				
Turn off all lights / appliances when not in use. Replace Incandescent Bulb by LED, and Energy Efficient Tube Light, Electric Fan etc. Use energy efficient star rated appliances. Never touch electrical lines whether inside house or outside. This is dangerous to your life. Never do construction work near or under electrical lines and Don't use electrical lines for drying cloths.									



**BILL OF SUPPLY FOR ELECTRICITY**

Consumer Name : THE REGISTRER(CUTM) UPPALADA	Rebate Date : 07/02/2022
Address Details : PARALAKHEMUNDI,	Due Date : 09/02/2022
	Consumer A/c No. : 31200000022
	Consumer ID : 3120000022
	Old Consumer No. : 11PI
	Bill Number : 312000002221597077
	Bill Issue Date : 02/02/2022
	Bill Basis : ACTUAL
	Last Bill Issue Date : 04/01/2022
	Bill Month : 2022/01

Area Details		Connection Details		Supply and Meter Details	
Division : PKED PARLAKHEMUNDI	Tariff Category : SPECIFIED PUBLIC PURPOSE	Power Factor : 0.9643	Power ON Hour : 744	Billable Demand-KVA : 680.000	Meter Sl. No. : ORU43670
Sub-Division : UPPALADA	Category Type : HT	Col. Meter No. : 01/01/2022 - 31/01/2022	Bill Period : 31/01.0000	Load Factor : 22.0000	Meter Reading : ACTUAL METER
Section : ESO UPALADA	Contract Demand : 850 KVA	Reliability Index : -NA-	Bill Days/Months : 31/1.0000	Meter Reading : ACTUAL METER	Reliability Index : -NA-
DT No. :	Supply Voltage : 33 KV	Voltage Profile : YES			
Pole No. :	Own Transformer : NO				
MRU No. :	ED Exemption : NO				
Walking Sequence :	Date of Connection : 08/11/2019				
Organization Type :	Security Deposit : 14,52,000.00				
Connection Type :	Metering Side : HT				
	Consumer Status : Active				
	Transformer Rating : 0 KVA				

Meter Reading Details						
Parameter	Prev Reading	Current	M.F.	Diff	T.F Loss	Total
KWH	1,581,2800	1,619,1050	1,200.00	37,8250	0.00	45,390.0000
MD-KW	0.0000	0.0000	1,200.00	0.0000	0.00	0.0000
KVAH	1,634,0460	1,673,2700	1,200.00	39,2240	0.00	47,069.0000
MD-KVA	2,9300	0.1568	1,200.00	0.0000	0.00	188.1600
Off Peak KWH	455,0250	467,4800	1,200.00	12,4550	0.00	14,946.0000
Off Peak KVAH	467,1800	480,0000	1,200.00	12,8200	0.00	15,384.0000
Off Peak MD-KW	0.0000	0.0000	1,200.00	0.0000	0.00	0.0000
Peak KWH	1,126,2550	1,151,6250	1,200.00	25,3700	0.00	30,444.0000
Peak KVAH	1,166,8660	1,193,2700	1,200.00	26,4040	0.00	31,684.8000
Peak MD-KW	0.0000	0.0000	1,200.00	0.0000	0.00	0.0000
Off Peak MD-KVA	0.1840	0.1156	1,200.00	0.0000	0.00	138.7200
Peak MD-KVA	0.2300	0.1568	1,200.00	0.0000	0.00	188.1600
KVARH	267,9800	277,1450	1,200.00	9,1650	0.00	10,998.0000
KVARH Lead	48,1000	48,1100	1,200.00	0.0100	0.00	12.0000

Due Date: 09/02/2022  
(Immediate for Arrears)  
Total Amount Payable  
Rs. 3,63,159.00

Disclaimer: Consumption inclusive of Solar, Open access, Colony and Multi meter, please see Annexure below.

Last Bill Amount	Payment Made	Rebate	Net Arrear in Rs.	Current bill amount	Adj/Inst	Net Payable Amount Before Rbt. Dt.(Rs.)	Net Payable Amount After Rbt. Dt.(Rs.)
6,63,929.00	6,57,664.00	-6264.66	0.00	3,63,159.13	-0.00	3,59,676.00	3,63,159.00

Current Bill Details		11. ASD Claimed	
a. Energy Charges	1,80,162.45	1. Sundry Adjustment	0.00
Slab 1 - KVAH 30797@	5.85 1,80,162.45	Debit	0.00
		Credit	0.00
b. Incentive on TOD	-3,076.80	2. Interest on SD(After TDS)	0.00
c. Demand Charge / MMFC	1,70,000.00	3. Miscellaneous Charge	3,63,159.13
d. Overdrawal penalty	0.00000	4. Total Current Bill(Aft Adj/Inst)	
e. Penalty for Fall in PF 0%	0.00	5. Rebate Allowable	-3,483.36
f. Power Factor Incentive	0.00	Prompt Payment+Rural+Special	3,59,675.00
g. Colony KvaH charge	0.00 / 0.00	6. Net Current payment after Rebate	0.00
h. Load Factor Rebate/ Special Discount	3,47,085.65	Digital Payment Rebate	3,59,675.00
i. Electricity Charge (a-b+c+d+e-f+g+h)	14,166.85	7. Net Current payment after Digital	0.00
j. Electricity Duty (8%)	0.01	8. Cross Subsidy Charges	0.00
k. Delayed Payment Surcharge	1,000.00	9. Disputed Amount	0.00
l. Meter Rent	250.00	10. Last Rebate Allowed	6264.66
m. Customer Service Charge	0.00	11. ASD Claimed	0.00
n. R.I. Surcharge	656.62	<b>Message</b>	
o. Tax Collection at Source	3,63,159.13	1. The connection shall be liable for disconnection on non-payment of all dues(including arrears of previous bill(s) by due date, after notice as per Section 56(1) of the Electricity Act 2003. 2. Cheque/bank draft is to be issued in favour of TPSODL. 3. Disputed amount is to be finalised on the outcome of the order of the respected court and the applicable. 4. ECS Opt-in. 5. Date wise last 5 payments detail with component wise adjustment are shown in annexure (second page). Payments has been clubbed in case of more than 5 payments from last billing cycle. 6. For FY 2020-21, final TCS amount will be intimated after reconciliation. From FY 2021-22, TCS shall be levied based on collection.	
p. Current Total (i+j+k+l+m+n+o)	3,63,159.13		

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