3.1.1 Grants received from Government and non-governmental agencies for research projects / endowments in the institution during the year (INR in Lakhs)-2022-2023							
3.1.3 Number of departments having Research projects funded by government and non government agencies during the year 2022-2023							
Name of the Project/ Endowments, Chairs	**Name of the Principal Investigator/Co-investivator**	**Department of Principal Investigator**	**Year of Award**	**Amount Sanctioned**	**Duration of the project**	**Name of the Funding Agency**	**Type (Government/non-Government)**
Third Party Quality Control	HOD- Civil Engineering Department	Civil Engineering	2022	5,261,675.96	1 year	GHMC(TPQC)	Government
Third Party Quality Control	HOD- Civil Engineering Department	Civil Engineering	2022	1,294,939.60	1 year	SNDP	Government
Third Party Quality Control	HOD- Civil Engineering Department	Civil Engineering	2023	367,450.44	1 year	HRDCL	Government
Energy Audit, Electrical Design services Development of Automation Systems and Trainng for Solar PV systems	HOD- Electrical and Electronics Engineering Department	Electrical and Electronics Engineering Department	2022	14,20,000	3 months	SAPALA ORGANICS PVT LTD	non-Governement
Automation and Process optimization of Chemical IndustryAlong with Instrumentation Maintenance	HOD-Eletronics and Communication Engineering	Eletronics and Communication Engineering	2022	1777780	3 months	SAPALA ORGANICS PVT LTD	non-Governement
Signal Simulator consultancy work	HOD-Eletronics and Communication Engineering	Eletronics and Communication Engineering	2023	22000	45 days	Aseerva Engineering Enterprises	non-Governement

Dr. John W. Carey
ECE

Dr. Md. Fakhruddin IN.
Professor, MECH. Dept.

SHAISTA BEGUM
CE

Dr. V. Moulali
CSE

A. Swathi
MBA

Dr. P. Srinivasa Rao.
H&S

Dr. B. Laxmaiah
EEE

18/4/24

PRINCIPAL
METHODIST COLLEGE OF ENGG. & TECH.
King Koti Road, Abids, Hyderabad.

METHODIST
COLLEGE OF ENGINEERING &TECHNOLOGY
(Affiliated to Osmania University, NAAC (A+) Accredited)
King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Date:03-01-2023

Invoice No: M-478 /2023
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Musheerabad-15, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: Sri. Patlolla Srinivas Reddy			
1	Laying of CC road in place of Damaged Road i). Laying of VDCC road from Star Hotel Back side and Mohammenagar area in Bholakpur ward-88, Division-15,SBZ, GHMC	28,59,275.00	0.18	5146.70
	TOTAL			**5146.70**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
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King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Date:14-02-2024

Invoice No: M-721 /2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Musheerabad-15, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency:Sri. A.Maheshwar Rao			
1	Laying of VDCC Road in Place of Damaged CC Road from Street no.07, Street No.06,Infront of Central View Appartment at Domalguda in Kavadiguda Ward	16,86,653.00	0.18	3035.98
	TOTAL			**3035.98**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
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King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Invoice No: M-696 /2024 Date:26-02-2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Musheerabad-15, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy Charges in (%)	Amount (Rs)
	Name of the Agency: Sri. Pallapu Raju			
1	Laying of CC Road in Place of Damaged BT Road at Mee Seva Office Opposite Lanes in Ward no.90 Kavadiguda, Musheerabad Circle-15,SBZ,GHMC	27,20,711.00	0.18	4897.28
	TOTAL			**4897.28**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
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Department of Civil Engineering

INVOICE

Date: 01-03-2024

Invoice No: M-735/2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Musheerabad-15, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: Sri. Kethavath Chandra Kiran			
1	Laying of CC Road in Place of Damaged Road at H.No.1-2-215/d2 (Sri Janaki Appartment to H.No.1-2-244/4/1 at Aravind Nagar Musheerabad Circle-15,Secunderabad Zone,GHMC	23,53,820.00	0.18	4236.88
	TOTAL			**4236.88**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

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King Koti road, Abids, Hyderabad
Department of Civil Engineering

Date: 06-02-2024

Invoice No:M-559 /2024
GST NO: 36AACFV7362C1Z7
PAN NO: AACFV7362C

To,
The Executive Engineer,
Amberper-16, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 30-03-2021

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency:Sri. D. Shravan Sagar			
1	Laying of CC Road from H.No.2-3-603/40/A1, Reddy Hotel to Chandu Hair Cut Saloon in Prem Nagar in Amberpet Division-83, Div-16,SBZ,GHMC	15,31,445.03	0.18	2756.60
	TOTAL			**2756.60**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
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King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Invoice No: M-527 /2024 Date: 20-02-2024

GST NO: 27AAATT5754E1ZD

PAN NO: AAATT5754E

To,
The Executive Engineer,
Amberpet-16, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.

Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: M/S. Chandrika Reddy Civil Contractor			
1	Laying of Damaged CC Road from H.No.2-3-647/1/9 to 2-3-649 in Prem nagar in Amberpet Division-83,Div-16,SBZ,GHMC	50,48,117.19	0.144	7269.29
	TOTAL			**7269.29**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
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Department of Civil Engineering

INVOICE

Invoice No: M-737 /2024 Date: 06-03-2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Amberpet-16, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: M/S. A.K. Constructions			
1	Laying of CC Road with RMC at H,No.2-2-62/3/A to 2-2-61/6 at Vinayak Nagar in Bagh Amberpet Division,Circle-16, GHMC	21,86,010.00	0.216	4721.78
	TOTAL			**4721.78**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
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Department of Civil Engineering

INVOICE

Invoice No: M-554 /2024 Date: 26-02-2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Amberpet-16, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: M/S. Shiva Shakthi Constructions			
1	Laying of CC road with RMC from at H.No.2-3-703/54/2 to Hanuman Temple and H.No.2-3-724/1/A/13 to 2-3-703/B/2/6/9 & 2-3-703/1/A/B/30 to 2-3-703/44 at Maruthi Nagar in Golnaka Division-16,Circle-16,SBZ,GHMC	33,60,662.00	0.18	6049.19
	TOTAL			6049.19

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
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Department of Civil Engineering

INVOICE

Invoice No:೧-೨೩೪/2024 Date: 15-02-2024

GST NO: 27AAATT5754E1ZD

PAN NO: AAATT5754E

To,
The Executive Engineer,
Moosapet-23, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.

Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: Sri. Putluri Dinesh Reddy			
1	Laying of CC Road at H.No.14-1-209/3A to 14-1-209/106,14-1-209/664 to 14-1-209/664 to 14-1-209/592,Near Hanuman Temple and Various bylanes Parvath nagar in Ward no.116 of Moosapet Circle-23, GHMC	27,14,065.00	0.18	4885.32
	TOTAL			**4885.32**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

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King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Date: 23 -02-2024

Invoice No: M-684 /2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Kukatpally-24, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
1	Name of the Agency:Sri. A.Srinivas Civil Contractor Restoration of Badly Damaged CC Road at Mallikarjuna Swamy Temple road and Bylanes at Phase-II in Ward no.124 Allwyn Colony of Kukatpally Circle-24,GHMC	26,98,360.92	0.18	4857.05
	TOTAL			**4857.05**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
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King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Invoice No: M-753 /2024
Date: 29-02-2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Kukatpally-24, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: M/S.GS Infra			
1	Restoration of Badly Damaged CC Road Plot no.2-1-60/a/2 to Sneha School,2-1-49/64/4 to 2-1-49/65,2-1-49/89/ih/er to 2-1-49/21/2,2-1-49/21/1 to 2-14-9/19,2-1-49/41 to 2-1-49/21/S,2-1-49/46/5/a to 2-1-ih/179/120/31 and 2-1-49/130 to 2-1-49/185 at Indira Hills in Ward no.124 Allwyn Colony of Kukatpally Cicle-24,GHMC	28,31,925.24	0.18	5097.47
	TOTAL			5097.47

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
TPQC-GHMC

MANAGER
TPQC - GHMC
METHODIST COLLEGE OF
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King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Date: 22-02-2024

Invoice No: M-657 /2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Moosapet-23, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: M/S. ECKO Design Studio			
1	Construction and Development of Bal Work for Protection of Open Space at Rajiv Gandhi Nagar in Allapur Ward no.116, Moosapet Circle-23,GHMC	75,85,656.08	0.144	10923.34
	TOTAL			**10923.34**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
TPQC-GHMC

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King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Date: 21-02-2024

Invoice No: M-733 /2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Moosapet-23, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 10/SE /QCC/GHMC/TPQC/2022 Dated: 28-03-2022

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
1	**Name of the Agency:** Sri. Putluri Kushindhar Reddy Construction of Community Hall at Habeeb Nagar in Ward no.115 of Moosapet Circle-23, (CDP Funds)	20,08,705.28	0.18	3615.67
	TOTAL			3615.67

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
Consultancy Cell

MANAGER
TPQC - GHMC
METHODIST COLLEGE OF
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METHODIST
COLLEGE OF ENGINEERING &TECHNOLOGY

(Affiliated to Osmania University, NAAC (A+) Accredited)
King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Date: 02-03-2024

Invoice No: M-755/2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Moosapet-23, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: Sri. Nithya Infra			
1	Protection of Open Spaces by Constructing Compound Wall at Dream View Colony in KPHB Colony Ward no.114 of GHMC, Moosapet Circle-23,GHMC	37,71,235.00	0.18	6788.22
	TOTAL			**6788.22**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
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King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Invoice No: M-703/2024 Date: 05-03-2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Kukatpally-24, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
1	**Name of the Agency:** M/S. Sri Sai Constructions & Co Remodeling of existing Road Crossing Culvert on Sai Sagar nala T Junction to Mansarover Appartment at Old Bowenpally in Ward no.119 Kukatpally Circle-24,GHMC	1,60,45,935.28	0.144	23106.15
	TOTAL			**23106.15**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
TPQC-GHMC

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TPQC - GHMC
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King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Invoice No: M-761 /2024 Date: 11-03-2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Moosapet-23, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: Sri. Sri. M.Illaiah			
1	Laying of CC Road Near Masjid and Bylanes D Block Safdar Nagar, Allapur in Ward no.116,Moosapet Circle-23,GHMC	37,45,185.00	0.18	6741.33
	TOTAL			**6741.33**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
TPQC-GHMC

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King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Invoice No: M-659 /2024 Date: 24-02-2024

GST NO: 27AAATT5754E1ZD

PAN NO: AAATT5754E

To,
The Executive Engineer,
Kukatpally-24, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.

Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
1	**Name of the Agency:** M/S. ECKO Design Studio Repairs and Raising of Compound Wall at Bhavani Nagar Open Space at Old Bowenpally,Ward No.119,Kukatpally Circle-24,GHMC	7,91,488.00	0.216	1709.61
	TOTAL			**1709.61**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

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(Affiliated to Osmania University, NAAC (A+) Accredited)
King Koti road, Abids, Hyderabad
Department of Civil Engineering

INVOICE

Date: 27-03-2024

Invoice No: M-774 /2024
GST NO: 27AAATT5754E1ZD
PAN NO: AAATT5754E

To,
The Executive Engineer,
Kukatpally-24, GHMC,
Hyderabad.

Sub: Bill Amount for 3rd Party Quality Control Services -Regarding.
Ref: Agreement No: 08/SE /QCC/GHMC/TPQC/2021 Dated: 01-04-2023

S.NO	Name of the Work	Contract Amount(Rs)	Consultancy charges in (%)	Amount (Rs)
	Name of the Agency: Sri. M/S. S.K.Enterprises			
1	Laying of CC Road from Sai Manju Driving School to H.No.5-5-35/274/3 Mythri nagar in Ward no.121,Kukatpally Circle-24, GHMC	25,06,437.48	0.18	4511.59
	TOTAL			**4511.59**

Amount may please be deposited in A/C No.62079194390 of State Bank of India Gunfoundry Branch and IFSC CODE: SBIN0020066

Manager
TPQC-GHMC

MANAGER
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(AUTONOMOUS INSTITUTION)
Estd: 2008
(Approved by AICTE, New Delhi, Affiliated to Osmania University)
Accredited by NBA and NAAC with A+ Grade

INVOICE

Invoice No: /CC/2022 **Date: 25-04-2022**

GST NO: 27AAATT5754E1ZD

PAN NO: AAATT5754E

To,
SAPALA ORGANICS PVT LTD
Plot Nos. 146B & 147, IDA Mallapur, Phase-II,
Hyderabad, Telangana 500076

Sub: Bill Amount for Energy Audit, Electrical Design Services Development of Automation Systems and Training for PV Solar systems-Regarding.

Ref: Work Order No: SPLA-03-2022 Dated: 16-03-2022

S.No	Particulars	Amount (Rs)
1	Energy Audit, Electrical Design Services Development of Automation Systems and Training for PV Solar systems (Including GST)	14,20,000.00
	TOTAL	**14,20,000.00**

In words Rupees fourteen Lakhs Twenty Thousand only

A/C No.62124645585
State Bank of India
Gunfoundry Branch, IFSC CODE: SBIN002006

For Methodist College of Engineering & Technology

Methodist College of Engg. & Technology
CONSULTANCY CELL
Consultancy Cell

Manager
Consultancy Cell

King Koti Road, Abids
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Detailed Project

"Energy Audit, Electrical Design Services Development of Automation Systems and Training for PV Solar systems"

The proposed project aims to enhance the operational efficiency of the chemical industry through the implementation of automation solutions, process optimization strategies, and meticulous maintenance of instrumentation systems. This Detailed Project Report (DPR) outlines the technical specifications, methodologies, and implementation plan for achieving the project objectives.

Project Objectives:

- Conduct a comprehensive assessment of existing processes and systems within the chemical industry.
- Identify opportunities for automation and process optimization to improve efficiency and productivity.
- Design and develop customized automation solutions tailored to the specific requirements of the chemical industry.
- Implement the designed solutions with rigorous testing to ensure functionality and reliability.
- Provide training and support to the staff for the seamless adoption and utilization of new technologies and processes.
- Establish a structured maintenance schedule for instrumentation systems to ensure optimal performance.

Technical Specifications:

Assessment Phase: Utilization of data gathering techniques such as interviews, surveys, and site visits to gather information on existing processes, systems, and challenges. Energy Audit and Electrical diagrams, instrumentation diagrams, and control systems architecture. Utilization of tools like process simulation software and data analytics platforms for in-depth analysis.

Automation and Optimization Phase: Development of automation solutions using industry- Energy Audit.

Maintenance Phase: Implementation of predictive maintenance techniques using IoT (Internet of Things) sensors and predictive analytics.

Development of a centralized maintenance management system for scheduling, tracking, and reporting maintenance activities.

Implementation of condition-based monitoring for early detection of equipment failures and proactive maintenance interventions.

Integration of maintenance data with enterprise asset management (EAM) systems for seamless work flow management.

Methodology:

- Phase 1: Assessment
- Phase 2: Design and Development
- Phase 3: Implementation
- Phase 4: Training and Support
- Phase 5: Maintenance and Monitoring

Implementation Plan:

Timeline:

Phase 1: Assessment (1 weeks)

Phase 2: Design and Development (1 week)

Phase 3: Implementation (3 Days)

Phase 4: Training and Support (2 Dayss)

Phase 5: Maintenance and Monitoring (1 Week)

Resources:

- Dedicated project team comprising experienced engineers, technicians, and support staff.
- Procurement of hardware components, software licenses, and testing equipment.
- Collaboration with industry experts and technology partners for specialized knowledge and support.

Risk Management:

- Identify potential risks such as technical challenges, resource constraints, and project delays.
- Develop mitigation strategies and contingency plans to address identified risks.
- Regular monitoring and review of project progress to identify and address emerging risks promptly.

Budget and Cost Estimation:

- Detailed breakdown of costs including personnel expenses, equipment procurement, software licenses, training costs, and contingency provisions.
- Budget allocation for each phase of the project based on resource requirements and project deliverables.

Conclusion:

Annexure:

- Detailed technical specifications for automation solutions.
- Project Gantt chart outlining the timeline and milestones
- Budgetary breakdown and cost estimation
- Risk register and mitigation strategies

This Detailed Project Report serves as a blueprint for the successful execution of the project and lays the foundation for achieving its objectives within the stipulated timeframe and budgetary constraints.

SPoC for this project

Dr B. Laxaman Naik

Associate Professor, Methodist College of Engineering and Technology, Abids, Hyderabad

Authorized Signatory:

HoD, Department of E.C.E., Methodist College of Engineering & Technology

Date: 10/03/2022

Head of Department
Department of E.C.E.
Methodist College of Engg & Tech.
Abids, Hyderabad-500 001.

METHODIST
COLLEGE OF ENGINEERING & TECHNOLOGY
(An UGC-AUTONOMOUS INSTITUTION)
Accredited by NAAC with A+ and NBA
Estd : 2008 Affiliated to Osmania University & Approved by AICTE

DEPARTMENT OF ELETRICAL AND ELECTRONICS ENGINEERING

Consultancy Report

Project Name : Energy Audit, Electrical Design Services Development of Automation systems and Training for PV Solar systems.

Project Duration: 17th March 2022 to 24th April 2022.

Project Address: Methodist College of Engineering & Technology, H.No.4-1-1001/1045/878B & 3-2, King Koti Rd, behind Brand Factory, Abids, Hyderabad, Telangana-500001

Invoice Address: Sapala Organics Pvt Ltd, Plot Nos. 146B & 147, IDA Mallapur, Phase-II, Hyderabad, Telangana 500076

Communication Email: principal@methodist.edu.in

Project Summary: The project "Energy Audit, Electrical Design Services Development of Automation Systems and Training for PV Solar systems "commenced on March 17th 2022, and concluded on April 24th2022. It aimed to enhance the operational efficiency of the chemical industry.

Project Team:

- **Faculty Members:**
  1. Dr . B. Laxaman
  2. Mr. J Ramesh Babu
  3. Mr. P. Rajinikanth
  4. Ms A. Archana
- **Supporting Staff:**
  1. Mr. Krishna Mohan

Project Objectives:

1. **Assessment**
2. **Analysis**

4. **Implementation**
5. **Training**
6. **Maintenance**

Project Activities:

1. **Initial Assessment:** The project team conducted Energy Audit an in-depth analysis of the existing processes and systems in collaboration with Sapala Organics Pvt Ltd.
2. **Requirements Gathering:** Engaged with the staff to understand their requirements, challenges, and expectations from the automation and Training
3. **Solution Design:** Based on the assessment and requirements, the team designed customized automation solutions tailored to the specific needs of the chemical industry.
4. **Implementation and Testing:** The designed automation systems were implemented.
5. **Training Sessions:** Training sessions were conducted to equip the staff with the necessary skills and knowledge to effectively utilize the new systems.
6. **Maintenance Planning:** A maintenance schedule was established, outlining regular checks, preventive maintenance.
7. **Monitoring and Support:** Continuous monitoring of the implemented solutions was conducted, and prompt support was provided.

Payment Terms: The agreed payment terms stipulate a 100% payment within 30 days of receipt of the invoice or as mutually agreed upon under the Agreement.

Conclusion: The collaborative efforts between Methodist College of Engineering & Technology and Sapala Organics Pvt Ltd have resulted in the successful execution of the project.

SPoC for this project

Dr .B .LaxamanNaik.

Associate Professor, Methodist College of Engineering and Technology, Abids, Hyderabad

Authorized Signatory:

Dr Y Mastanamma.

HoD, Department of EEE, Methodist College of Engineering.

Head of Department
Department of EEE
Methodist College of Engg & Tech
Abids, Hyderabad-500 001.

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DEPARTMENT OF ELECTRICAL & ELECTRONICS ENGINEERING
CONSULTANCY CELL
Revenue Distribution for Sapala Organics Private Ltd

As per the guidelines of R&D the revenue allocation of the Consultancy income 14,20,000.00 (Rs) as follows

S No	Project	Explanation	College Management	Finance/Principal Office/ Admin	Faculty Involved	Support Staff Tech	Support Staff Non-Tech	Remarks
1	Energy Audit, Electrical Design Services Development of Automation Systems & Training For Solar PV System	Testing facilities and Vehicle Provided by college	30% (4,26,000.00)	10% (1,42,000.00)	55% (7,81,000.00)	5% (71,000.00)	00	-

The Share will be allocated to the Consultancy project team as mentioned below as per the Policy of the College.

S. No	Name of the Staff	Designation	Percentage
1.	Dr.Y.Mastanamma	HOD EEE	10
2.	Dr. B.Laxman	Associate Professor	10
3.	Mr. E. Saidulu	Assistant Professor	10
4.	Mr. Rajinikanth	Assistant Professor	10
5.	Ms. Archana	Assistant Professor	10
6.	Mr. Krishna Mohan	Lab Assistant	5

Co-ordinator

Head of the Department

Head of Department
Department of EEE
Methodist College of Engg & Tech.

METHODIST
COLLEGE OF ENGINEERING & TECHNOLOGY
(AUTONOMOUS INSTITUTION)
(Approved by AICTE, New Delhi, Affiliated to Osmania University)
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INVOICE

Invoice No: /CC/2022 **Date: 16-09-2022**

GST NO: 27AAATT5754E1ZD

PAN NO: AAATT5754E

To,
SAPALA ORGANICS PVT LTD
Plot Nos. 146B & 147, IDA Mallapur, Phase-II,
Hyderabad, Telangana 500076

Sub: Bill Amount for Automation and Process Optimization of Chemical Industry Along with Instrumentation Maintenance - Regarding.

Ref: Work Order No: SPLA-05-2022 Dated: 13-07-2022

S.No	Particulars	Amount (Rs)
1	Automation and Process Optimization of Chemical Industry Along with Instrumentation Maintenance (Including GST)	17,77,780.00
	TOTAL	**17,77,780.00**

In words Rupees Seventeen Lakhs Seventy Seven Thousand Seven Hundred and Eighty only

A/C No.62124645585
State Bank of India
Gunfoundry Branch, IFSC CODE: SBIN002006

For Methodist College of Engineering & Technology

Methodist College of Engg. & Technology CONSULTANCY CELL

Manager
Consultancy Cell

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Hyderabad - 500 001, T.S. India
Ph : 040 - 24753445, 24755999
E-mail : principal@methodist.edu.in
Website : www.methodist.edu.in

Progress Report

Project Name: Automation and Process Optimization of Chemical Industry Along with Instrumentation Maintenance

Project Duration: July 13, 2022, to September 30, 2022

Project Address: Methodist College of Engineering & Technology, H.No.4-1-1001/1045/878B & 3-2, King Koti Rd, behind Brand Factory, Abids, Hyderabad, Telangana-500001

Invoice Address: Sapala Organics Pvt Ltd, Plot Nos. 146B & 147, IDA Mallapur, Phase-II, Hyderabad, Telangana 500076

Communication Email: principal@methodist.edu.in

Project Summary: The project "Automation and Process Optimization of Chemical Industry Along with Instrumentation Maintenance" commenced on July 13, 2022, and concluded on September 30, 2022. It aimed to enhance the operational efficiency of the chemical industry through the implementation of automation solutions, optimization of processes, and meticulous maintenance of instrumentation systems.

Project Team:

- **Faculty Members:**
    1. Mr. I. Srikanth
    2. Mr. C. Balaranaga Swamy
    3. Mr. M. Satish yadav
    4. Mr. Mr. D Varaprasad
- **Supporting Staff:**
    1. Mr. Sanjeev Chary

Project Objectives:

1. **Assessment:** Conduct a comprehensive assessment of the current processes and systems within the chemical industry.
2. **Analysis:** Identify areas for automation and process optimization to improve efficiency and productivity.
3. **Design:** Develop tailored automation solutions to address the specific needs and challenges of the chemical industry.

4. **Implementation:** Implement the designed automation systems and conduct rigorous testing to ensure functionality and reliability.
5. **Training:** Provide training sessions and support to the staff for the seamless adoption and utilization of the new technologies and processes.
6. **Maintenance:** Establish a structured maintenance schedule for instrumentation systems and perform regular checks and repairs to ensure optimal functioning.

Project Activities:

1. **Initial Assessment:** The project team conducted an in-depth analysis of the existing processes and systems in collaboration with Sapala Organics Pvt Ltd.
2. **Requirements Gathering:** Engaged with the staff to understand their requirements, challenges, and expectations from the automation and optimization initiatives.
3. **Solution Design:** Based on the assessment and requirements, the team designed customized automation solutions tailored to the specific needs of the chemical industry.
4. **Implementation and Testing:** The designed automation systems were implemented, and extensive testing was carried out to validate functionality, reliability, and compatibility with existing systems.
5. **Training Sessions:** Training materials were developed, and comprehensive training sessions were conducted to equip the staff with the necessary skills and knowledge to effectively utilize the new systems.
6. **Maintenance Planning:** A maintenance schedule was established, outlining regular checks, preventive maintenance tasks, and procedures for addressing any issues or concerns with instrumentation systems.
7. **Monitoring and Support:** Continuous monitoring of the implemented solutions was conducted, and prompt support was provided to address any technical issues or operational challenges encountered by the staff.

Project Deliverables:

1. Detailed assessment report outlining findings, recommendations, and proposed solutions.
2. Documentation of the designed automation solutions, including system architecture, specifications, and implementation plan.
3. Implemented automation systems along with documentation, user manuals, and training materials.

4. Training sessions conducted for the staff, including attendance records and feedback.
5. Maintenance schedule and reports documenting maintenance activities, inspections, and repairs carried out on instrumentation systems.

Payment Terms: The agreed payment terms stipulate a 100% payment within 30 days of receipt of the invoice or as mutually agreed upon under the Agreement.

Conclusion: The collaborative efforts between Methodist College of Engineering & Technology and Sapala Organics Pvt Ltd have resulted in the successful execution of the project, achieving its objectives of enhancing efficiency, productivity, and reliability within the chemical industry. The implementation of automation solutions, process optimization strategies, and robust maintenance practices will contribute to sustained improvements in operational performance and competitiveness.

SPoC for this project

Mr. I Srikanth

Associate Professor, Methodist College of Engineering and Technology, Abids, Hyderabad

Authorized Signatory:

HoD, Department of ECE, Methodist College of Engineering & Technology

Date: 30/09/2022

HEAD OF THE DEPARTMENT
DEPARTMENT OF ECE
METHODIST COLLEGE OF ENGG. & TECH
ABIDS, HYDERABAD.

Detailed Project Report (DPR)

Automation and Process Optimization of Chemical Industry Along with Instrumentation Maintenance

The proposed project aims to enhance the operational efficiency of the chemical industry through the implementation of automation solutions, process optimization strategies, and meticulous maintenance of instrumentation systems. This Detailed Project Report (DPR) outlines the technical specifications, methodologies, and implementation plan for achieving the project objectives.

Project Objectives:

- Conduct a comprehensive assessment of existing processes and systems within the chemical industry.
- Identify opportunities for automation and process optimization to improve efficiency and productivity.
- Design and develop customized automation solutions tailored to the specific requirements of the chemical industry.
- Implement the designed solutions with rigorous testing to ensure functionality and reliability.
- Provide training and support to the staff for the seamless adoption and utilization of new technologies and processes.
- Establish a structured maintenance schedule for instrumentation systems to ensure optimal performance.

Technical Specifications:

- **Assessment Phase:**
    - Utilization of data gathering techniques such as interviews, surveys, and site visits to gather information on existing processes, systems, and challenges.
    - Analysis of process flow diagrams, instrumentation diagrams, and control systems architecture.

- Utilization of tools like process simulation software and data analytics platforms for in-depth analysis.

- **Automation and Optimization Phase:**
  - Development of automation solutions using industry-standard PLC (Programmable Logic Controller) systems.
  - Integration of sensors, actuators, and control devices for real-time monitoring and control of processes.
  - Implementation of advanced control algorithms for optimization of key process parameters.
  - Utilization of SCADA (Supervisory Control and Data Acquisition) systems for centralized monitoring and control.

- **Maintenance Phase:**
  - Implementation of predictive maintenance techniques using IoT (Internet of Things) sensors and predictive analytics.
  - Development of a centralized maintenance management system for scheduling, tracking, and reporting maintenance activities.
  - Implementation of condition-based monitoring for early detection of equipment failures and proactive maintenance interventions.
  - Integration of maintenance data with enterprise asset management (EAM) systems for seamless workflow management.

Methodology:

- **Phase 1: Assessment**
  - Conduct initial assessment and data collection through interviews, surveys, and site visits.
  - Analyze collected data to identify areas for automation and optimization.
  - Develop a detailed assessment report outlining findings and recommendations.
- **Phase 2: Design and Development**
  - Design automation solutions based on identified requirements and industry best practices.

- Develop control logic, algorithms, and HMI (Human-Machine Interface) screens for PLC and SCADA systems.
- Conduct simulation and testing to validate the functionality and performance of the designed solutions.

- **Phase 3: Implementation**
  - Install and configure hardware components including sensors, actuators, and control devices.
  - Program PLCs and SCADA systems according to the finalized design specifications.
  - Conduct comprehensive testing and debugging to ensure seamless integration and operation.
- **Phase 4: Training and Support**
  - Develop training materials and conduct training sessions for staff on the operation and maintenance of the implemented systems.
  - Provide ongoing support and assistance to address any technical issues or operational challenges encountered by the staff.
- **Phase 5: Maintenance and Monitoring**
  - Establish a structured maintenance schedule based on equipment criticality and operational requirements.
  - Implement condition-based monitoring techniques to detect early signs of equipment degradation.
  - Monitor system performance and KPIs (Key Performance Indicators) to identify opportunities for continuous improvement.

Implementation Plan:

- **Timeline:**
  - Phase 1: Assessment (2 weeks)
  - Phase 2: Design and Development (4 weeks)
  - Phase 3: Implementation (6 weeks)
  - Phase 4: Training and Support (2 weeks)

- Phase 5: Maintenance and Monitoring (1 Week)

- **Resources:**
  - Dedicated project team comprising experienced engineers, technicians, and support staff.
  - Procurement of hardware components, software licenses, and testing equipment.
  - Collaboration with industry experts and technology partners for specialized knowledge and support.

- **Risk Management:**
  - Identify potential risks such as technical challenges, resource constraints, and project delays.
  - Develop mitigation strategies and contingency plans to address identified risks.
  - Regular monitoring and review of project progress to identify and address emerging risks promptly.

Budget and Cost Estimation:

- Detailed breakdown of costs including personnel expenses, equipment procurement, software licenses, training costs, and contingency provisions.
- Budget allocation for each phase of the project based on resource requirements and project deliverables.

Conclusion: The proposed project encompasses a comprehensive approach towards enhancing the operational efficiency of the chemical industry through automation, optimization, and maintenance strategies. By adhering to the outlined technical specifications, methodologies, and implementation plan, the project aims to achieve its objectives effectively and deliver sustainable improvements in productivity and performance.

Annexure:

- Detailed technical specifications for automation solutions.
- Project Gantt chart outlining the timeline and milestones.
- Budgetary breakdown and cost estimation.

Gmail

Dr. Carey <careymedithe@gmail.com>

Consultancy Work on Signal Simulator - Inquiry and Collaboration Request

Aseerva Engineering <info@aseerva.co.in>
To: "Dr. Carey" <careymedithe@gmail.com>

Tue, Jul 4, 2023 at 6:44 PM

Dear Dr. Carey, Greetings.

Thanks for the update. We appreciate all your efforts and congratulate you on the successful completion of the project on time.
Our representative will visit your lab in a day or two for further proceedings. You may require to visit our client office NAD Visakhapatnam for testing of the equipment and to address the technical issues.

As per the agreed terms, the consultancy fee **INR 22,000/-** (Twenty Two Thousand Rupees only) has been deposited in the account provided by you (attached transaction receipt). Kindly acknowledge the receipt of the same. Once again we congratulate you on the successful completion of the project.

Regards,
Dr. B. Chakravarty
Head-Projects
Aseerva Engineering Enterprises
Hyderabad, Mobile: +91- 784 22 42 769
Email: info@aseerva.co.in

[Quoted text hidden]

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