Jawaharlal Nehru Technological University, Kakinada
Kakinada – 533 003, Andhra Pradesh

recognizes

Department of Civil Engineering
Gudlavalleru Engineering College
Seshadri Rao Knowledge Village
Gudlavalleru-521356

as a research centre

for the academic years
2018-19 & 2019-20

Kakinada
18th July, 2019

Registrar
REGISTRAR
J.N.T. University Kakinada
Kakinada-533003
Recognizes

Department of Civil Engineering
Gudlavalleru Engineering College, Gudlavalleru

As
RESEARCH CENTRE

For the
Academic Years 2021-22 & 2022-23

Kakinada
19th March, 2022
CENTRES OF EXCELLENCE

WATER, ENVIRONMENT, LAND (WEL) RESEARCH CENTRE
DISASTER MANAGEMENT CELL

DEPARTMENT OF CIVIL ENGINEERING

GUDLAVALLERU ENGINEERING COLLEGE
(An Autonomous Institute with Permanent Affiliation to JNTUK, Kakinada)
SESHADRI RAO KNOWLEDGE VILLAGE
CENTRES OF EXCELLENCE

WATER, ENVIRONMENT, LAND (WEL) RESEARCH CENTRE
DISASTER MANAGEMENT CELL

Department of Civil Engineering, Gudlavalleru Engineering College has established two centres of excellence for promoting research and development in an interdisciplinary environment. The department, though the youngest in the college, established after 10 years of starting the college, has been successful in working closely with other departments to promote interdisciplinary learning as well as research and development. Remote Sensing & GIS Technologies and Disaster Management are amongst the most popular electives in interdisciplinary courses offered by the civil engineering department. This has been possible through the investment in appointing faculty with Masters in such specialised and interdisciplinary subjects as well as providing a research and development establishment counted amongst the best in the coastal districts of Andhra Pradesh. The department currently houses a centre for research on Water, Environment and Land and a cell for Disaster Management using Geospatial Technologies coupled with Conventional datasets. The centres have benefitted both faculty and students in getting used to work in an interdisciplinary environment.

The Disaster Management Cell was inaugurated on 05-02-2010 in the Department of Civil Engineering by Major General Dr. R. Siva Kumar, Head NRDMS Division, CEO NSDI, Department of Science and Technology, New Delhi which was setup with the financial support from the institutional funds of Gudlavalleru Engineering College.

The aim of the above two centres is to focus on the development, management and conservation of natural resources, ecology and environment and disaster management. Their activities are interwoven with the threads of ICT and domain expertise in fields such as water resources, environmental engineering, geology & geotechnical engineering, structural engineering etc., which are available in-house. They also receive visiting experts and peers from other institutions in the region for sharing information and resources. The mission of these centres is to work closely with state, centre and international institutions to address the local and regional ground level issues through joint effort by developing research programmes integrated with academics.
Vision of WEL Centre
To develop the centre as one of the prime research centres by carrying out high quality Research and disseminating the scientific information for sustenance, management and conservation of water, environment and land.

Vision of Disaster Management Cell
To prepare a safe and disaster resilient nation by promoting holistic and technology driven strategies and imparting a culture of prevention, mitigation, preparedness and responsibility.

Objectives of Centres
- To identify the ground level issues / problems related to natural resources and vulnerable zones of disaster
- To carry out core and applied research in the areas of land & water resources, environment & ecology, coastal zone development, disaster management strategies etc.
- To generate authentic scientific evidence / information on the status and scenarios on various natural resource parameters using geospatial and conventional technologies
- To recommend/ suggest remedial measures for implementation
- To present / publish research results and conduct seminars / workshops
- To disseminate scientific information, create awareness and contribute directly to society
- To collaborate and interact with premier institutions and research organisations
- To familiarise / train the faculty and students in the state of the art / cutting edge technologies
- To attain the status of national and international reputation, though the college is situated in rural environment
About Us

The centres of excellence focus on the applications of spatial information technology and conventional technologies to the water and land resource inventory, mapping, monitoring and management of environment & ecosystems in the region and disaster management. They also identify the environmental issues connected to water and land emerging out of the socio-economic transformation of the region in the residual state of Andhra Pradesh. The water and wastewater testing laboratory facilities of Department of Civil Engineering are used for field data collection and analysis wherever necessary.

The core missions of the WEL centre and Disaster Management Cell are interwoven to form the vital link between these interdisciplinary programmes and conduct high quality research in the areas of natural resources development, management and conservation, environment and ecology, coastal dynamics, disaster management strategies etc. using Remote Sensing (RS), GIS and GPS technologies coupled with conventional datasets. The centre carries Research & Development both in core and applied research studies by identifying issues at ground level having social relevance and national importance, requiring immediate attention.

These research and development activities are being conducted with the help of the advisory Committee of Civil Engineering Department and more particularly with the guidance of Visiting Professor Dr. K.R.K Raju, who has put in several years of rich experience in these areas. These centres have collected/generated extensive datasets and developed a digital / GIS database of various natural resources and man-made infrastructure of Krishna district, land and water resources of Godavari and Krishna river basins, coastal dynamics etc. as a part of its in-house R&D activity.

The centres have allocated space to mount the output of the research work of various resource maps of appropriate sizes ranging from A4 to A0 to educate students, faculty and other stakeholders who may visit the centres.
The enhanced view of hard copy maps in such large format aids student projects and also various stakeholders from other sections of the society.

**Krishna District, Andhra Pradesh, India**

NATURAL RESOURCE DIVERSITY / POTENTIAL

The district formed in 1925 is popularly known as rice granary of India. It experiences both continental and marine/costal processes resulting in the evolution of northern upland, central low lying upland, southern deltaic plain and Kolluru lake. Possesses an extent of 8,727.54 sq.km. and endowed with a unique natural resource diversity and abundant resource potential of both national and international significance and enjoys the status as a part of capital of Andhra Pradesh.

**HYDROMETEOROLOGY**

- Tropical climate
- Average annual rainfall: 3,900 mm
- Temperature: Avg. high 45°C, low 19°C
- Relative humidity: high 80%, low 45%

**NATURAL BOUNDARIES**

- WEST BY MIGHTY KRISHNA RIVER
- SOUTH BY BAY OF BENGAL
- EAST BY TAMILLERU, KOLLERU & UPPUTERU

**ENVIRONMENT AND ECOSYSTEM**

- Eastern Ghats biodiversity
- Marine estuarine ecosystem
- Kolluru & Gudalur Ecosystem
- Krishna river ecosystem
- Mangrove forest

**PHYSIOGRAPHY**

- Hills
- Valleys
- Pediplains
- Plains
- Soils
- Red loamy
- Clayey
- Sandy
- Black cotton
- Silty clay
- Deltaic black
- Saline-sodic

**LAND USE**

- Agriculture
- Aquaculture
- Horticulture
- Forest plantation
- Salt pans
- Quarrying

**ENERGY RESOURCES**

- Thermal power
- Solar power
- Gas based power

**TOURISM**

- Heritage caves & temples
- Hamsala Deevi & Bramha island
- Mahagadru beach
- Kolliyota & birds sanctuary
- Konda palli & Challapalli forts etc.

**INDUSTRIES**

- Rice mill & sugar
- Cement
- Textile & chemical paper & jute mill
- Coir & lace
- Ceramic & palm oil
- Kondapalli art craft etc.

**COASTAL & MARINE RESOURCES**

- Oil and natural gas
- Limestone
- Chrome
- Sand, Mica, Barytes
- Diamond, Sulphur etc.

**TECTONIC FEATURES**

- Pranahita - Godavari graben
- Krishna - Godavari basin
- Eastern Ghats upwarp
- Neo-tectonic activity
- Marine transgression & regression

**GEOLOGY**

- Varied litho units (17)
- Alluvium of recent age
- Rajahmundry sandstones
- Gondwanaas
- Karnools
- Panahals
- Cudapahs
- Metamorphics of archaean

**GEOGRAPHY**

- Structural hills
- Denudational hills
- Valley falls
- Pediplains
- Flood plains
- Deltaic plains
- Coastal plains
- Paleo channels
- Paleo beach ridges
- Beaches
- Lagoonal formations

**RIVER SYSTEMS**

- Krishna
- Palleru
- Munneru
- Budamkurrisu
- Ramulluru
- Tammilleru
- Upputuru

**WATER RESOURCES**

- Major irrigation
  - Prajalasa Barrage
  - Nagarjunasagar
  - Polichinthala

- Medium irrigation
  - Nagavelli Guem
  - Brahmapeta Lingam
  - Minor irrigation
  - 30 tanks in upland

- Lift irrigation schemes
  - Taraka Rama lift irrigation

**GROUND WATER**

- Unconfined, semi-confined & confined aquifer systems of shallow medium & deeper multi-aquifers of different litho units, yields vary largely 500 to 5000 GPM

**MINERAL RESOURCES**

- Oil and natural gas
- Limestone
- Chrome
- Sand, Mica, Barytes
- Diamond, Sulphur etc.

*Prepared by:
- Bahuse Rad
- Department of Civil Engineering
- Gudalavalleri Engineering College
- Krishna District, A.P.*

*Fundied by:
- Bahuse Rad
- Department of Civil Engineering
- Gudalavalleri Engineering College
- Krishna District, A.P.*

*Prepared by:
- Water Environment and Land Research Centre
- Department of Civil Engineering
- Gudalavalleri Engineering College
- Krishna District, A.P.*
Infrastructure

The WEL centre and Disaster management cell are endowed with adequate software and hardware facilities to undertake research studies.

Software: ArcGIS 10.1, STAAD Pro V8, AutoCAD2015

Hardware: i7 Processor Based Systems: 2 Nos, i5 Processor Based Systems: 3 Nos, Handheld Garmin GPS

Satellite Data: IRS CARTOSAT, IRS LISS IV MX, IRS – AwIFS

Collateral/Ancillary Data

Topographical maps, reports and other conventional data sets pertaining to Krishna District, parts of Andhra Pradesh and Godavari & Krishna river basins.

Outcomes / Utility

Ph.D Programmes: Pursuing: 03, Completed: 01, Publications: 30

Training

Faculty: 09, Technical Personnel: 03, Students: M.Tech. 06, B.Tech. 40, Student projects: 16

Workshops/Seminars: 15

Project Proposals Submitted for Sponsorship: 04

1. “Mismanagement of Land and Water Resources and its Adverse Scenarios on Agriculture and Environment in the Highly Fragile Inter-Deltaic Plain of Krishna and Godavari, Andhra Pradesh, India”. Collaborative projects submitted to SERB, DST, Govt of India.

2. “Geoscientific Database Generation, Analysis and conservation of Guntupalli Caves and enhance the Tourism potential & socio-Economic status in the rural area of West Godavari, A.P. India”, collaborative project submitted to NRSC, ISRO, Govt of India.


Collaborating Organisations

- Oil and Natural Gas Corporation, Government of India.
- Acharya N.G.Ranga Agricultural University, Government of Andhra Pradesh
- S.R.K.R.Engineering College, Bhimavaram, Andhra Pradesh

Beneficiaries

- Different departments of State and Central Government
- Non-Governmental Organisations
- Farmer's Associations
- Faculty/Students from different Educational Institutions.

Areas of Interest

The districts that comprise the deltas of Krishna and Godavari viz. Guntur, Krishna, West Godavari and East Godavari constitute the backbone of the economy of the divided state both in terms of the natural and human capital. Nearly 50% of the capital region development authority (CRDA) falls within the Krishna district. The district has coastal delta lands as well as uplands which have distinct natural features and therefore economic activity. The demarcation of the capital region encompassing the riverine parts of the Guntur and Krishna districts opened unprecedented opportunities for development.

Rampant land use practices / conversion will happen as part of the development and it is necessary to predict the impacts of such transformation on sound science and technology about the impact of these changes on the environment and on economic progress. Development projects named so far include large building projects, highways, canals interlinking rivers, conversion of agriculture to aquaculture, ports and harbours etc., A detailed Atlas of topographic as well as thematic maps is necessary to inform the decision making process in the government.
This requires a multi-institutional and multi-disciplinary approach to undertake various aspects of resource evaluation for different activities pertinent to Land, Water and Environment. These form the basis of cross-cutting issues such as, coastal dynamics, water pollution, seawater intrusion, climate change, sea-level rise, depleting irrigation water resources, loss of biodiversity, unchecked mainstream developmental activities of CRDA, cyclones, earth quakes/tsunamis etc.,

The centres have pooled internal resources to generate such a repository of resource maps for the Krishna District. Going forward, similar work may be taken up by like-minded institutes in other districts to come up with a complete mapping of the eight coastal districts of Andhra Pradesh which have commonalities in geographic features, economic activity, societal conditions and development-environment challenges.

**Future programmes**

The centres plan to expand its areas of research in coastal dynamics, impacts of intensive land use practices on deltaic environment, coastal erosion/accretion, drainage congestion, development of flow models of irrigation waters and back water intrusion, development of digital database of deltas of Godavari and Krishna, geospatial archaeology, seismic zoning, tsunami run up etc. For this, the centres envision in formulating integrated, multidisciplinary and inter-institutional research programmes in collaboration with national and international premier institutions. The outcome of the research will published in reputed journals and disseminated by organising seminars and workshops and also conducting awareness programmes among stakeholders and policy makers. The centres of excellence are proposing to collaborate with the following institutions.

1. Indian Institute of Technology (IIT), Tirupati.
2. National Institute of Technology (NIT), Tadepalligudem.
3. Centre for Studies on Bay of Bengal (CSBOB), Andhra University, Visakhapatnam.
4. A.P. State Space Application Centre (APSAC), Govt. of A.P.
5. A.P. Pollution Control Board, Govt. of A.P.
## Water Environment & Land Research Centre & Disaster Management Cell

### Major Equipment:
- 17 Dell OptiPlex Systems - 2 nos
- 15 Acer systems - 5 nos
- LISS- IV Satellite Images
- Topographical Maps

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<td>Sri. G.T.N. Veerendra</td>
<td>Mrs. K. Bhavani</td>
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Department of Civil Engineering
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<td>Comparative Analysis of Selected Water Quality Parameters Using Conventional Methods and Microcontroller Sensor</td>
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<td>Spatial representation of analysis and evaluation of quality of surface water sources for drinking water along Bandar canal, Krishna district, A.P.</td>
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<td>Delineation Of Drainage Network in The Upper Watersheds Between Tandavaanda Gosthani Rivers In Visakhapatnam District Using Gis</td>
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<td>Water Resdelineation Of Drainage Network In The Watersheds Between Tandava And Gosthani Rivers In Visakhapatnam District Using GisSources Engineering</td>
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<td>Integrated Watershed delineation of Krishna District, A.P using RS&amp;GIS</td>
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<td>Application of Remote Sensing and Geographic Information System in Solid Waste Management for Gudiwada Municipality</td>
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WITH CONTINUOUS ENCOURAGEMENT & SUPPORT FROM

Dr. Nageswara Rao Vallurupalli
Sri. M. Srinivasa Rao
Er. V. Satyanarayana Rao
Sri. V. Rama Krishna
Dr. P Ravindra Babu
Dr. G.V.S.N.R.V.Prasad
Dr. P. Kodanda Rama Rao
Dr. M. R. Ch. Sastry

: Chairman
: Vice-Chairman
: Secretary & Correspondent
: Co-Secretary & Correspondent
: Professor & Advisor to Management
: Principal
: Vice-Principal, Administration
: Vice-Principal, Academic Affairs

Committee of Centres of Excellence

Dr. A. Srinivasulu
Head(i/c), Dept of Civil Engineering

Sri. G.T.N.Veerendra
WEL Centre Co-ordinator

Faculty / Technical Personnel

Dr. S.R.K. Reddy
Dr. K. Radhakrishnam Raju
Sri. N. Haripavan
Sri. A.H.L.Swaroop
Sri. G. Sai Krishna
Sri P.S.S. Anjaneya Babu

Mrs. K. Bhavani
Mrs. N. Mounica

“SAVE NATURE, NATURE SAVES YOU”

*****
### Faculty Supervising Research Scholars

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<td>1</td>
<td>Dr. S.R.K Reddy</td>
<td>Mr. Sunil Lakshmaiah</td>
<td>Koneru Lakshmaiah</td>
<td>2014</td>
<td>Degree awarded</td>
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<td>2019</td>
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<td>5</td>
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<td>JNTUK Kakinada</td>
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<td>Mr. A. Anurag JNTUK Kakinada</td>
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<tr>
<td>8</td>
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<td>Mrs. N. Tejaswini JNTUK Kakinada</td>
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<td>2020</td>
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<td>9</td>
<td>Dr. A. Sreenivasulu</td>
<td>Ms. Mandala Sridevi</td>
<td>Centurion University of Technology &amp; Management, Odisha</td>
<td>2023</td>
<td>Pursuing</td>
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<td>10</td>
<td>Dr. A. H. L. Swaroop</td>
<td>Ms. Mandala Sridevi</td>
<td>Centurion University of Technology &amp; Management, Odisha</td>
<td>2023</td>
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## Details of WEL Centre

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<td>UPS PB 6KVA UPS</td>
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<td></td>
<td>Cable Set For 6Kva</td>
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<td>DDR3L1600MHZ(GBx2)</td>
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<td></td>
<td>1TB 7200RPM Hard Disk</td>
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<tr>
<td></td>
<td>DVD Writer</td>
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<tr>
<td></td>
<td>DELL Es series E2016 19.5&quot;wide, Screen Monitor with LED</td>
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<td></td>
<td>Back Light, AMD Radeon R5 340x2GB Graphic Card</td>
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<td>Dell Optical Mouse, Dell Keyboard</td>
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<td>500GB Sata HDD/8GB DDR3/PS2KB 104Keys/PS2 Optical Mouse/18.5&quot; W TFT</td>
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**Total**  
₹ 3,66,875.00
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<td>33,500.00</td>
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Date: 1.7.2016

Thank you for MARUTHI COOLERS

Goods once sold cannot be replaced or return.
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<tr>
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<th>Description of Goods</th>
<th>VAT GST</th>
<th>Quantity</th>
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<td>16GB Dual Channel DDR3L 1600MHz (8GBx2)</td>
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<td>1TB 7200RPM Hard Disk</td>
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<td></td>
<td>AMD Radeon R5 342X 2GB Graphics Card</td>
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<td></td>
<td>Dell Optical Mouse</td>
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<td></td>
<td>Dell Keyboard</td>
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<td>Three Years Warranty</td>
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Note: VAT's Ref. = 0501647

Other Reference(s):

Terms of Delivery:

2 systems for Civil
1 system for mechanical

This is a Computer Generated Invoice
TAX INVOICE

Invoice No. 2501634/16-17
Delivery Note 2501250/16-17
Supplier's Ref. SO 2506939
Buyer's Order No. GEC/UPS/CE/137
Despatch Document No

Accutech Infosystems Pvt. Ltd. (Vja)
31-18-2, Narlavari Street,
Machavaram Down,
Vijayawada- 520004
Tel Fax- 0866-66317671
E-Mail accounts.ap@accutech.co.in

CIN00986 - Gudlavalleru Engineering College
Gudlavalleru
Krishna District-521356

Consignee

CIN00986 - Gudlavalleru Engineering College
Gudlavalleru
Krishna District-521356

Buyer (if other than consignee)

CIN00986 - Gudlavalleru Engineering College
Gudlavalleru
Krishna District-521356

SI
Description of Goods
Quantify
Rate
per
Amount

1
PB 6KVA UPS
Batch : 160406ASG372
1 Nos.
1,03,500.00
1,03,500.00

2
26 AH/12V SMF/VRLA Batteries
Batch : Exide
16 Nos.
1,03,500.00
1,65,600.00

3
Cable Set For 6Kva
1 Nos.
1,03,500.00
1,03,500.00

Output VAT @ 5%
5 %
5,175.00

Total 18 Nos.

INR 1,08,675.00

Company's VAT TIN : 37320173749
Company's CST No. : 37320173749
Company's Service Tax No. : AADCA3137AST002
Company's PAN : AADCA3137A

Declaration
“I/we hereby certify that my/our registration certificate under the Maharashtra Value Added Tax Act, 2002 is in force on the date which sale of the goods specified in this “Tax Invoice” is made by me/us and that the transaction of sale powered by this “Tax Invoice” has been effected by me/us and it shall be accounted for in the turnover of sale while filling of return and due Tax, if any payable on the sale have been paid or shall be paid.” NOTE: IF PAYMENT IS NOT MADE WITHIN DUE DATE INTEREST WILL BE CHARGED @ 24% P.A.

This is a Computer Generated Invoice
## INVOICE

**Invoice No.:** 43  
**Dated:** 5-Jun-2015  

**Supplier's Ref.:**  
**Other Reference(s):**  

**Buyer's Order No.:**  
**Dated:**  

**Despatch Document No.:**  
**Dated:**  

**Despatched through:**  
**Destination:**  

**Terms of Delivery:**

<table>
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<tr>
<th>Description of Goods</th>
<th>Quantity</th>
<th>Rate per</th>
<th>Amount</th>
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<td>Acer Desktops</td>
<td>25 no</td>
<td>32,285.71</td>
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**Output VAT @5%**

**ROUND OFF**

- Rate: 5%
- Amount: 40,357.14
- ROUND OFF: 0.11

**Total:** 25 no  
**Amount:** ₹ 8,47,500.00

**Amount Chargeable (in words):** INR Eight Lakh Forty Seven Thousand Five Hundred Only

**For DBA Technologies**

**Authorised Signatory**

**Declaration:** We declare that this invoice shows the actual price of the goods described and that all particulars are true and correct.

**This is a Computer Generated Invoice**