S.No.		Response	Remarks				
	Company Profile						
1	Name of the Organization	Yes					
2	Address and Contact Details	Yes					
3	Type of participant (MSME, Start-up,	Yes					
	Govt. Institution, Academia, Domestic						
	Company/PSU/ Society/University/College /						
	other registered organization etc.)						
4	Area of work / Domain expertise	Yes					
5	Size of company	Yes					
6	Location of Head office and branches if any	Yes					
7	Company turnover – last three years	Yes	Attached				
	System / module Readiness		-				
8	Proposed Product area category Product/ Solutions))	Yes					
9	Product phase (development TRL level/ POC /	Yes					
	Field trial / ready for deployment)						
10	Compliance to any standards	Yes					
11	Customers / Clients / Collaboration if any	Yes	Attached				
12	List of IPR / Awards / Paper Published if any Yes						
13	Standard body membership / contributions if any	Yes					
14	Certification testing (TEC / security etc.)	Yes					
Manpower							
15	Size of skilled manpower in the proposed area	15					
16	Number of Architects4						
17	Number of Developers in the proposed area6						
18	Number of Test and Integration Engineers2						
19	Number of Field Support Engineers	3					
	Principal Investor (first point of conta	ct)	_				
20	Name & Designation	Yes					
21	Institution/ Department/ Address	Yes					
22	Bio-data/ Professional credentials	Yes	Attached				
	Co- Investor						
23	Name & Designation	Yes					
24	Institution/ Department/ Address Yes						
25	Bio-data/ Professional credentialsYesAttach						
	Infrastructure						
26	Software and development tools used	Yes					
27	Details of Test equipment available for Proposed Modules/ system	Yes					
28	Deployment, Network planning tools used	Yes					

Annexure-A : Format of Response

	Process		
29	Product development lifecycle and Quality practices followed	Yes	
30	Test Automation practices followed if any	Yes	
	Funding		
31	Estimated development cost of the proposed modules/system. (Separately module wise, in case multiple modules are proposed)	Yes	
32	Fund expected from this program (Separately module wise, in case multiple modules are proposed)	Yes	
33	Details of funding received for the Same / Similar project from other schemes of DoT / GOI.	Yes	
34	Details of self-funding / other sources for the Proposed modules / system	Yes	
	Product description		
35	Brief product/ solution/ idea description	Yes	
36	Primary Objective of the module/ sub-system/system/ product proposed	Yes	
37	Key deliverables/ expected outcome	Yes	
38	Type of solution/ product- Stand-alone/ Sub-system/ Application/ Complete system / product	Yes	
39	Details of prior experience, expertise and components/ sub-systems/ product developed in selected area of interest.	Yes	Attached
40	(If the proposed solution/product is not stand-along and/or a module, please provide details of the larger solution it caters to/ required to integrate to arrive at full solution)	Stand alone	
41	Is the product/ technology related to present activities/ products being developed by CDOT? If so, how does theproduct tie in with present activities/ products, being developed by CDOT?	Yes	
42	Is it a new concept/ design/ solution/ product? If so, What are relevant standards being adopted?	Existing	Attached
43	Are there any alternate competitive technology/ product? available/ under development locally / outside India? Please provide the information available with you. What is the comparison of performance/ specification/ features?	Yes	Attached
44	Provide the specification document relevant to your product?	Yes	

	Project Plan		
45	Provide development Plan indicating the major	Yes	Attached
	milestone and respective cost break up of each		
	milestone Provide bar chart/ project plan		
	Additional Resource Requireme	nts	
46	Manpower support requirements	Yes	Attached
47	Infrastructure support requirements	Yes	Attached
48	Tools, Testers and platform requirements	Yes	Attached
49	Any development tools and software requirements	Yes	Attached
	Risk and Risk mitigation proposed	l	
50	Risk areas and challenges, as envisaged	Yes	Attached
51	Mitigation plan and/or contingency plan suggested,	Yes	Attached
	if any		
52	Potential foreground IPR (Intellectual Property) that can	Yes	
	be developed by the participants individually and		
	collectively		
53	Background IPR available for contribution to	Yes	
	the project and Nature of ownership of the background		
	IPR (exclusively owned, Jointly owned, Taken under		
	license etc.)		
54	Status of background IPR (eg in planning stage, on	Yes	
	roadmap, patented/ copyrighted, under development,		
	under field trials, mass deployed etc.). And also specify		
	expected duration of IPR availability to this project		
	Regulatory approvals Requireme	ents	
55	Any regulatory approvals required from Govt for the	Yes	
	product/ solution being proposed		



MALLA REDDY ENGINEERING COLLEGE

(An UGC Autonomous Institution, Approved by AICTE, New Delhi & Affiliated to JNTUH, Hyderabad). Accredited by NAAC with 'A++' Grade (Cycle- III), NBA Tier –I Accredited
(B.Tech – CE, EEE, ME, ECE & CSE, M.Tech – Structural Engg, Electrical Power Systems, Thermal Engg.) IIC – Four Star Rating, NIRF Rank Band 250-300, ARIIA Band Performer,
Maisammaguda(H), Medchal - Malkajgiri District, Secunderabad, Telangana State – 500100, <u>www.mrec.ac.in</u>



Project Title:

Enhanced Face Recognition and Communication of UAV System using 5G and SDN

Company Profile

- 1. Name of the Organization Malla Reddy Engineering College
- Address and Contact Details Main Campus, Dulapally, Maisammaguda Post via. Kompally, Rangareddy Dt, Secunderabad, Hyderabad, Telangana-500100
- Type of participant (MSME, Start-up, Govt. Institution, Academia, Domestic Company/ PSU/ Society/University/College / other registered organization etc.) College
- 4. Area of work / Domain expertise
 Wireless Communication / Multimedia(10 years)
 (Title of the Work: Multimedia Transmission over Dynamic Adhoc Network (Qos))
- Size of company
 15 (Telecom Related)
- Location of Head office and branches if any Dulapally, Maisammaguda Post via. Kompally, Rangareddy Dt, Secunderabad, Hyderabad, Telangana-500100
- Company turnover last three years Yes. Attached as PDF file

System / module Readiness

- 8. Proposed Product area category Product/ Solutions)) New Design
- Product phase (development TRL level/ POC / Field trial / ready for deployment) TRL level - I
- 10. Compliance to any standards **TRAI/DoT**

11. Customers / Clients / Collaboration if any

- 1. Vodafone Idea Limited LOI Attached
- 2. Reinv Labs LOI Attached
- 3. Unistring Tech Solutions LOI Attached

Provide the second seco	CET TO STRUCTURES	Unistring Tech Solutions Pre. Ltd. COM: MARCARESTALT CM: UT206120677165323
Reference to your email dated 12-11-2022 we are happy to know that MREC is planning to take up project on Face recognition using drones by Telecom technology funding agency.	Misarrenagoda, Hyderabad	To The Principal
We herewith give our consent for cooperation in implementation of above project.	Dear Sir,	Malla Reddy Engineering College (MREC)
Tanka na Hagush Pe Vadana Ida Lid Anharand Sigaway	Sub-Development of a proton for the recognitive using become technology - Technical topper. Reference to your entited hand on 16.1.3.222, we are buyers to taken data ABCCC is placened to data one register alter toronogation and and and by Falconic takened (Reference). We become the piece and learner to executing proton with Marc development on the stream for the fast series and the series and the series of the series of the series of the series of the series relations. We piece a series of the series of the series of the series of the series of the series of the series of the series of the series of the series of the series	Misumagula, Hyderahal Sir, Sub: Popiett or development of Face recognition using donas by Telecon schenlage – technical support requirers; Reference to your enal laded 12-11-2022 or are largery to know that MEEC to johaning to take are project or hear recognition subsceps. Taketon achedog funding again, We herewish give our consent for cooperation in implementation of above project.
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- 12. List of IPR / Awards / Paper Published if any Papers Published - 5
 - S.Jalal Ahmad, V.S.K.Reddy, A. Damodaram, P. Radha Krishna "Delay Optimization using Knapsack Algorithm for Multimedia Traffic in MANETs" Expert Systems with Applications vol.42 pp 6819-6827 (2015). <u>www.elsevier.com/locate/eswa</u>
 - S.Jalal Ahmad, P. Radha Krishna, 'BHQRSM Binary Hex Quadratic Residue Security Model to Enhance the Trust in MANETs', Wireless Pers Commun (2018) 101: 661. https://doi.org/10.1007/s11277-018- 5710-9
 - R. K Singh, D.Elizabath Rani, Syed Jalal Ahmad, "RSBHCWT: Re-Sampling Binary Hex Code Windowing Technique To Enhance Target Detection" Indian Journal of Science and Technology, Vol 9(47),pp 1-5, December 2016. <u>https://sciresol.s3.us-east-</u> 2.amazonaws.com/IJST/Articles/2016/Issue-47/Article44.pdf
 - Ishrath Unissa, Md. Aleem, Syed Jalal Ahmad, Signal Processing for OFDM Spectrum Sensing Approaches in Cognitive Networks, Dec. 2021. <u>https://www.taylorfrancis.com/chapters/edit/10.1201/9781003338789-6/signal-processing-ofdm-spectrum-sensing-approaches-cognitive-networks-ishrath-unissa-md-aleem-syed-jalal-ahmad</u>
 - Syed Jalal Ahmad, Ishrath Unissa, M. Shoukath Ali, Abhay Kumar, Enhanced security to MANETs using digital codes, Journal of Information Security and Applications, Volume 66, 2022, 103147, ISSN 2214-2126, <u>https://doi.org/10.1016/j.jisa.2022.103147</u>
- 13. Standard body membership / contributions if any Executive Member - Institute of Engineers and Member IEEE
- 14. Certification testing (TEC / security etc.) **Yes, approval required**

Manpower

- 15. Size of skilled manpower in the proposed area
 - 15

16. Number of Architects Architects - 4

- 17. Number of Developers in the proposed areaDesign Engineer 4Programmer 2
- 18. Number of Test and Integration Engineers Test Engineer - 1 Integration Engineer - 1
- 19. Number of Field Support EngineersField Support Engineer 3

Principal Investor (first point of contact) 20. Name & Designation Dr.A.Ramaswami Reddy, Principal & Professor, CSE Department, Malla Reddy Engineering College

- 21. Institution/ Department/ Address Malla Reddy Engineering College Main Campus, Dulapally, Maisammaguda Post via. Kompally, Rangareddy Dt, Secunderabad, Hyderabad, Telangana-500100
- 22. Bio-data/ Professional credentials

Dr. A. Ramaswami Reddy did his B.Tech (CSE) from AMIE, M.Tech (CSE) from R.V.R & J.C, ANU and Ph.D (CSE) from JNTU Kakinada. He has 22 years of experience in teaching, research and consultancy. Currently working as Principal at Malla Reddy Engineering College and obtained Four Research Projects of worth 1.53 Crores under AICTE – Margdarshan, SPICES and Microsoft- AI for Earth Grant. Published research articles in more than 44 peer reviewed journals indexed in SCI, Scopus & WoS, published three Patents and received four prestigious awards from reputed organizations. He guided more than 60 B.Tech Students and 44 M.Tech Students.

The main objective of my research was image segmentation, to extract valuable data from the images to identify various objects present. The problem of image segmentation is investigated with a spotlight on magnetic resonance (MR) images of brain in this proposal. Brain tissues gray scale values are complex in nature to process because of their in homogeneity. To overcome these limitations, which can be applied for labelling, identification of image boundaries and to determine the exact location of tumour, a novel method of brain MR image segmentation called Fuzzy – MRF using Conjugate Gradient method is developed. The outcomes obtained from Fuzzy – MRF

model are compared with previously proposed ICM algorithm. It is observed that the segmentation results obtained from Fuzzy – MRF are more accurate in terms of quality metrics and noise reduction for each brain MR image. The results obtained from Hidden Markov Random Field model are compared with Fuzzy- MRF model. It was observed that the segmentation results obtained from this are more accurate in terms of quality metrics and noise reduction for each brain MR image.

Co- Investor

23. Name & Designation

- 1. Dr.Syed Jalal Ahmad, Professor, ECE Department, Malla Reddy Engineering College
- 2. Dr.N.Manikanda Devarajan, Professor, ECE Department, Malla Reddy Engineering College
- 3. Dr.M.Jagadeesh Chandra Prasad, Professor & Head, ECE Department, Malla Reddy Engineering College
- 4. Mr.Y.Malleswar, Chief Technology Officer, Invas Technologies, Hyderabad
- 24. Institution/ Department/ Address

Malla Reddy Engineering College Main Campus, Dulapally, Maisammaguda Post via. Kompally, Rangareddy Dt, Secunderabad, Hyderabad, Telangana-500100

25. Bio-data/ Professional credentials

I (Dr.Syed Jalal Ahmad) started my carrier as a researcher in the year 2010 with an area of Computer Networks (Such as Sensor Networks, Ad Hoc Networks, Cognitive Networks and Security). Initially I developed a routing protocol to improve the QoS to multimedia transmission over dynamic Adhoc Networks by considering delay as a main parameter, latter I concluded that all network parameters are equally important in particular B.W. Energy, T.I. Distance and delay. So by considering all network parameters an enhanced routing model was designed to get better QoS. After improving routing packet loss calculation, Buffer management and security were essential issues, therefore more attention was given to resolve these issues. Various techniques and models have been suggested to mitigate these issues. Since 2016 main focus was given to improve digital codes to detect multiple targets in Doppler radar and (C-IoT) to develop a prototype that can improve smart cities. Recently start to work on 5G using SDN to avoid pilot contamination, to estimate channels and to improve directivity. Till date various Journals and Conference Papers have been published in reputed journals and conferences and three papers are communicative. Also Number of M.Tech Thesis has been completed under my supervision. Presently I am guiding one PhD scholar.

Dr.N.Manikanda Devarajan received his B.E. (ECE) Degree Periyar University, M.E. Degree in Computer & Communication from Anna University. He completed his Ph.D. Degree in Information and Communication Engineering under Anna University. His area of research is Machine Learning, Artificial Intelligence, Wavelet OFDM, PAPR reduction, Wideband Channel Estimation, MIMO OFDM and OFDMA systems. He has more than 15 years of teaching and research experience. He has published around 25 Research Papers in International peer reviewed journals listed in SCI, Scopus, WoS, UGC Care Listed and Conference Proceedings.

Dr.M.Jagadeesh Chandra Prasad started his carrier as a researcher with an idea to enhance of channel estimation using probabilistic model. Later found that beamforming is another issue and tried to mitigate this issue to using dynamic algorithm. Now working with massive MIMO system to improve the quality of service by minimizing the pilot contamination problem and to develop effective channel estimation technique which improves the packet delivery ratio, and minimizes the delay. He has 22 years of teaching and research experience. He has published 36 papers in various international journals.

INVAS Technologies (P) Ltd, incorporated in the year 2006 with the main objective of carrying-out the business of providing Telecom Test Solutions and value-added services in India, Nepal, Bangladesh and Sri Lanka.

We are a team of technical experts with a long and successful track record in the technologies used for fixed and mobile networks. We have provided our customers with advanced telecommunications products and services that are highly reliable, value for the money and supported during and beyond the warranty period. The supplied products are engineered for customers to meet the environmental conditions and comply with the international standards.

Infrastructure

- 26. Software and development tools used **Yes (Multisim, HFSS, Matlab)**
- 27. Details of Test equipment available for Proposed Modules/ system

Name of the Equipment/Software	Description
SDN Software-	USRP 2901 MIMO Hardware
Hardware Bundle for 2x2 MIMO Applications	Antennas Communication Systems Design Software (Multisim) 2021

28. Deployment, Network planning tools used

The network used is 5G and the communication network consists of UAV (Drone) with transceiver and an antenna system to communicate with base station. Furthermore high definition 360° cameras to take pictures and different types of sensors are used to process these pictures and send it to central unit of the UAV to take rapid action with respect to time. Further Invas Technology provides the support for testing and verification to complete the proposed work.

Process

- 29. Product development lifecycle and Quality practices followed6-7 Years, as per TEC
- 30. Test Automation practices followed if any **Yes, it is followed. Built-in Self Test/Testing**

Funding

31. Estimated development cost of the proposed modules/system. (Separately module wise, in case multiple modules are proposed)

Budget Head	Year-1(in Cr)	Year-2(in Cr)	Total(in Cr)
Manpower	1.056	1.056	2.112
Equipments	1.137	-	1.137
Software Tools	0.86	-	0.86
Infrastructure	0.206	-	0.206
Consumables	0.50	0.50	1.00
Travel	0.05	0.05	0.10
Workshop & Seminar	0.01	0.01	0.02
Outreach Program	0.10	0.10	0.20
Contingencies	0.50	0.50	1.00
IPR, Accounting, Marketing	-	0.50	0.50
Cost of Testing	0.50	0.50	1.00
Deployment Cost	0.50	0.50	1.00
Overhead	0.85	0.85	1.70
Miscellaneous Cost (EB bill, Water, Printer, etc)	1.00	1.00	2.00
Grand Total	6.159	3.956	12.835

32. Fund expected from this program (Separately module wise, in case multiple modules are proposed)

Budget Head	Year-1(in Cr)	Year-2(in Cr)	Total(in Cr)
Manpower	1.056	1.056	2.112
Equipments	1.137	-	1.137
Software Tools	0.66	-	0.66
Consumables	0.50	0.50	1.00
Contingencies	0.50	0.50	1.00
Cost of Testing	0.50	0.50	1.00
Deployment Cost	0.50	0.50	1.00
Overhead	0.85	0.85	1.70
Miscellaneous Cost (EB bill, Water, Printer, etc)	1.00	1.00	2.00
Grand Total	6.703	4.906	11.609

Fund requested from USOF:

Fund by Host Institution:

Budget Head	Year-1(in Cr)	Year-2(in Cr)	Total(in Cr)
Software Tools	0.20	-	0.20
Infrastructure	0.206	-	0.206
Travel	0.05	0.05	0.10
Workshop & Seminar	0.01	0.01	0.02
Outreach Program	0.10	0.10	0.20
IPR, Accounting, Marketing	-	0.50	0.50
Grand Total	0.566	0.66	1.226

Fund requested from USOF - Rs. 11.609 Cr Fund by host Institution - Rs.1.226 Cr 33. Details of funding received for the Same / Similar project from other schemes of DoT / GOI.

Yes. Microsoft - AI for Earth Grant Fund Received

Project Titled: A Smart Agriculture Development for Monitoring the fields using IoT and Artificial Intelligence

34. Details of self-funding / other sources for the Proposed modules / system Have collaboration with Invas Technologies, Vodafone Idea Limited, Reinv Labs and Unistring Tech Solutions

Product description

35. Brief product/ solution/ idea description

The proposed UAV can be used near LOC (Line of Control). The designed invention can enhance the security of LOC in terms of continuous monitoring of unauthorized objects (e.g. Drones, humans, vehicles etc). The proposed system not only monitors the unauthorized ground or flies movement but also respond it with an IOT based weapon associated with it.



Figure 1: Block diagram of Proposed Model

Figure 1 represents the block diagram of the proposed model. Face recognition module (FRM) uses CNN to train the system, store the images and compare them with the incoming images. Fifth generation (5G) communication is established by using generalized frequency division multiplexing (GFDM) modulation and demodulation technique as it provides flexibility while selecting parameters (such as pulse shaping, reducing cyclic prefix etc.)

The random images of the objects taken from the drone is converted into digital signals and fed as input to the channel encoder which reduces the interference while the signal is travelling through the channel. The pilot bits designed are orthogonal series, used to optimize the pilot contamination (by other signals operating at same frequencies) and ease the channel estimation process. The space encoder gives reliability to the data as the array of patch antennas are employed at both the transmitter and receiver end. These antennas are simple, small cost effective and operate at different frequency bands.

The processing central unit and structure block provides the appropriate idea to align the data frames for transmission and the pre-distortion block is used to improvise the linearity of the amplifiers.

At the receiver end decoders and demodulator are present to synchronize and reconstruct the transmitted image with minimal distortion. Channel estimation and pilot contamination reduces orthogonal.

36. Primary Objective of the module/ sub-system/system/ product proposed

- Develop face recognition algorithm to capture the face images on mobility in UAV.
- Design a dynamic algorithm to optimize the safety and energy of UAV
- Develop mechanisms for efficient use of Bandwidth, Beamforming and pilot contamination by employing SDN.
- Improve the communication security to UAV System.
- 37. Key deliverables/ expected outcome(Excel sheet yearwise/Quarterwise) gang chart
 - ✓ Development of a Secure and energy efficient algorithm to enhance resource utilization of UAV
 - ✓ Enhance the Design of a patch antenna to optimize directivity
 - ✓ Design of a channel estimation technique to optimize Pilot contamination and bandwidth
 - ✓ Development of an efficient face recognition approach using deep learning
 - ✓ Develop a secure and efficient Model to enhance target detection of mobile UAV
 - ✓ Testing and Validation of anticipated system

Activiteis	Months							
	0-3	3-6	7-9	10-12	13-15	16-18	19-21	22-24
Design algorithm for UAV Safety								
and Energy								
Antenna Design								
Developing a machanism for								
Bandwidth, Beamforming and pilot								
contamination by employing SDN								
Develop a Face Recognition								
algorithm								
Design algorithm to detect the								
Mobility of UAV, Handoff and								
Secure Communication								
Testing & Validation								
Prototype								

✓ Prototype of the projected approach

38. Type of solution/ product Stand-alone/ Sub-system/ Application/ Complete system / product

Stand-alone

To enhance the surveillance, communication and strengthen the paramilitary forces, UAVs seems to be the optimum solution to mitigate the above mentioned issues. UAVs can be used to enhance the growth of the nation ranging from agriculture to defence; moreover it can act as a backbone in the upcoming communication system.

39. Details of prior experience, expertise and components/ sub-systems/ product developed in selected area of interest.

The research potential of the college is duly recognized by various funding agencies both national and international. The college got Rs. 1 Crore grant from the software giant Microsoft under 'AI for Earth' scheme and AICTE has granted Rs. 50 Lakh worth 'Margadarshan' scheme to mentor 10 Engineering colleges for the NBA accreditation process.

- 40. (If the proposed solution/product is not stand-along and/or a module, please provide details of the larger solution it caters to/ required to integrate to arrive at full solution) **Stand-alone**
- 41. Is the product/ technology related to present activities/ products being developed by CDOT? If so, how does the product tie in with present activities/ products, being developed by CDOT?Yes. As per the TRAI
- 42. Is it a new concept/ design/ solution/ product? If so, What are relevant standards being adopted?

Existing, however the proposed design improves the face recognition probability and communication of Drones in terms of both hardware and software. Here modified 5G and SDN technologies are adapted to enhance the probability of communication for face images on mobility in UAV.

43. Are there any alternate competitive technology/ product? available/ under development locally / outside India? Please provide the information available with you. What is the comparison of performance/ specification/ features?

International Status

Huang Yao et al (2019) presented a review of UAV for remote sensing applications, in which the authors explain different types of UAV applications. Here the authors greatly focus on UAVs societal applications. Harilaos Koumaras et al (2021) devised a technique with Command and Control Software Component at the Edge to improve the energy of UAV by exploiting Multi-access Edge Computing (MEC). In this approach the authors use AI algorithm to control the energy in holistic manner, which

may increase the delay and simultaneously degrades the performance of the system. UAVs have a significant marketplace to grow quickly (Godage 2019)

National Status

DRDO carried out a successful test flight of Tactical Airborne Platform for Aerial Surveillance-Beyond Horizon-201 called Rustom II(TAPAS-BH-201) on 25/02/2018. Gupta el al (2021) presented advancements of UAVs towards future transportation. In this paper the authors articulate various issues and challenges of UAV system. Furthermore the authors exchange comparative analysis of various techniques used to develop UAV system. Sreenadh Chevula et al (2021) projected a model of a drone in which the authors put attention towards the mechanical design of blades to optimize the working situation under different weather circumstances. However all the above approaches are just enhances the mechanical structure, but less attention was given towards automation of UAV in terms of security of the tertiary

44. Provide the specification document relevant to your product?

The proposed product (UAV) will be having an AUW (Authorized Unpriced Work) of 500 Kgs approximately, length 6 m and has a wing span of 15. Furthermore it can fly at a maximum speed of 100km/hr with survival up to 12 hours. It has the capability to manage at line of sight ranges of 75km and accomplish a maximum upper limit of 2,000ft. The proposed product can hold payloads of 50kg via LOS up to 25km. The product is also equipped with 4 high resolution cameras to ensure the desired activity within the given limit.

Project Plan

45. Provide development Plan indicating the major milestone and respective cost break up of each milestone Provide bar chart/ project plan

Activitais	Months								
Activiteis	0-3	3-6	7-9	10-12	13-15	16-18	19-21	22-24	
Design algorithm for UAV Safety									
and Energy									
Antenna Design									
Developing a machanism for									
Bandwidth, Beamforming and pilot									
contamination by employing SDN									
Develop a Face Recognition									
Design algorithm to detect the									
Mobility of UAV, Handoff and									
Secure Communication									
Testing & Validation									
Prototype									
Cost breakup	2.861 Cr	1.114 Cr	1.264 Cr	1.414 Cr	1.189 Cr	1.239 Cr	1.239 Cr	1.289 Cr	

Additional Resource Requirements

Skilled Man Power	No. Required	Man Month	Year-I(in Cr)	Year-II(in Cr)
Architects	4	90,000.00	0.432	0.432
Design Engineer	4	55,000.00	0.264	0.264
Programmer	2	30,000.00	0.072	0.072
Test Engineer	1	40,000.00	0.048	0.048
Integration Engineer	1	50,000.00	0.060	0.060
Field Support Engineer	3	50,000.00	0.180	0.180
То	tal	1.056	1.056	

46. Manpower support requirements

47. Infrastructure support requirements

Infrastructure	Estimated Cost (Year-I)(in Cr)
Work Space	0.150
Table	0.010
Chair	0.005
Light	0.001
Air Conditioner	0.030
Other Furniture	0.010
Total	0.206

48. Tools, Testers and platform requirements

Name of the Equipment	Quantity	Estimated Cost (Year-I) (in Cr)
SDN Software-Hardware Bundle for	1	0.150
2x2 MIMO Applications		
Solar Cell	4	0.075
Camera	4	0.110
Gateway	8	0.116
Wireless Sensor Nodes	50	0.160
Sensors to acquire Physical	30	0.156
parameters		
High speed IoT processors	10	0.160
Piezometer with data logger	1	0.130
Drone	10	0.080
Total		1.137

49. Any development tools and software requirements

Name of the Tool/Software	Quantity	Estimated Cost (Year-I)
MATLAB with toolbox	1	0.260
HFSS Software	1	0.400
Cloud Space	1	0.200
Total		0.860

Risk and Risk mitigation proposed

50. Risk areas and challenges, as envisaged

The various risk factors which can cause consequences in terms of manpower, equipment failure and testing can be compensated by maintaining a separate budget of about 15% of the total to meet the end goal of the project achievement.

51. Mitigation plan and/or contingency plan suggested, if any

In case of any risk/failure the working team will move to plan B which has been well planned in advance. The project team will take rapid action to reduce or eliminate the risk by considering the risk factors. That is in case of any technical risk/failure, we will call an expert member from the telecom industry to identify the problem and resolve the issue in due course of time. For this issue 2% of the total project cost will be employed to meet the technical end goal of the project. Furthermore for any other risk (e.g. management, deployment, unavailability of equipment/lost), 1% of the total budget will be utilized for consultation of the expert members from the desired division to work out the discrepancy.

Moreover, if some uneven problem happens in the project, we have to call a test bench from the telecom industry to detect and correct the problem associated with the project. For this the project cost may increase 1-2%.

- 52. Potential foreground IPR (Intellectual Property) that can be developed by the participants individually and collectively Yes
- 53. Background IPR available for contribution to the project and Nature of ownership of the background IPR (exclusively owned, Jointly owned, Taken under license etc.) Shown interest by Invas Technologies, Vodafone Idea Limited, Reinv Labs and Unistring Tech Solutions
- 54. Status of background IPR (eg in planning stage, on roadmap, patented/ copyrighted, under development, under field trials, mass deployed etc.). And also specify expected duration of IPR availability to this project Yes required. For 15 Years

Regulatory approvals Requirements

55. Any regulatory approvals required from Govt for the product/ solution being proposed **Yes. As per TRAI**

LIABILITIES	AMOUNT Rs.	ASSETS	AMOUNT Rs.
GENERAL FUND	(15,47,42,652)	FIXED ASSETS	28,91,43,159
SECURED LOANS	13,46,521	DEPOSITS	9,18,25,627
SUNDRY CREDITORS	78,13,120	PURCHASE & ADVANCES	2,07,02,752
OTHER CURRENT LIABILITIES	59,72,81,556	OTHER CURRENT ASSETS	21,00,52,929
INTER TRANSFER RECEIPTS	17,98,86,674	CASH & BANK BALANCES	4,35,80,751
TEQIP-II Grant	2,37,20,000		
	65.53,05,219		65,53,05,219



Principal Malia Reddy Engineering College Maisammaguda, Dhulapally, (Post Via Kompally), Sec'bad-500109.

CMR EDUCATIONAL SOCIETY

(MALLA REDDY ENGINEERING COLLEGE)

BALANCE SHEET SCHDULES AS ON 31-03-2020

GENERAL FUND:		
GENERAL FUND	(21,29,92,203)	
ADD: EXCESS OF INCOME	5,82,49,551	
OVER EXPR	(15,47,42,652)	
SECURED LOANS:		
C BANK VEHICLE LOAN - 6773603	6 73 252	
C BANK VEHICLE LOAN - 6773603	6 73 269	
BANK VEHICLE LONN OFFICIO	13 46 521	
	10,40,021	
OTHER CORRENT LIABIL HES:	05.400	
Audit Fee Payable	35,400	
E S I Payable	2,028	
Exam Fee (Online)	3,02,16,886	
Exam Fees	14,65,964	
Ibm Student Training	40,100	
IEEE Registration Charges	9,600	
NSS	1,81,950	
PF PAYABLE	1,63,821	
Project Fee	22,11,050	
PT Payable	57,550	
Q Spider Training	23,62,200	
Remuneration Payable	44,000	
Salaries Payable	55,89,63,043	
SDP FEE	9,19,300	
Staff Club Payable	1,02,900	
TDS Payable	2,30,554	
TDS Payble(Contract)	650	
TDS (Professional)	1,00,000	
Workshop/Oxford/BEC	1,74,560	
	59,72,81,556	
INTER TRANSFERS RECEIPTS:		
CMRES	(1.51.28.297)	
MRCET	8.01.99.948	
MRCP	7 88 56 936	
MRIM	1 65 80 715	
MRPC	1 93 77 372	
	17.98.86.674	
DEPOSITE		
DEFOSITS.	62 406	
Electricity Deposit	03,420	
Fixed Deposits	9,17,02,201	
	9,18,25,627	
OTHER CURRENT ASSETS:		
Loans & Advances (MREC-TEQIP)	99,68,164	
Loans & Advances (TEQIP-MREC)	(99,68,164)	
Fee Receivable	4,51,09,688	
Scholorships Receivable	16,49,30,000	
TDS Receivable	13,241	
	21,00,52,929	
CASH & BANK BALANCES:		
Cash	1,49,271	
Canara Bank - 71	2,58,015	
(MRPGC)-SBI - 3066612362	1,25,752	
(MRPGC) - UBI - 327401010036197	391	
SBH- 62186715641(CF)	27,934	
SBH - 62186715776(ERF)	1,87,507	
SBH-62186715812 (MF)	13.337	
SBH-62186715867 (EDE)	12.617	
SBI-30666122940	1.84.491	
UBI-327401010023092	16.310	
UBI-711401010050001	3 58 49 616	
UBL-711401010050009(Exam Br)	1 13 670	
UBI-711401010050010 (AUTO)	14 31 590	
HBL-711401010050033 (Grants)	1 05 342	
LIBL - 711401010050046 (Placement	47 45 320	
Cash	18 061	
SB- MG - 62218846310	3 40 628	1 100
02-100-022100-0010	0,40,020	ED.
& ASSQ	4 35 80 751	1ch -
	1001001101	



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Principal Maila Reddy Engineering Collega Maisammaguda, Dhulapally, (Post Via Kompally), See'bad-500100

(MALLA REDDY ENGINEERING COLLEGE)

INCOME & EXPENDITURE ACCOUNT AS ON 31-03-2020

	EXPENDITURE	AMOUNT		INCOME	AMOUNT
		Rs.			Rs.
То	Admission Fee	4.06.400	Bv	Fee Collections	18.03.91.280
То	Advertisement Charges	30,95,406	Bv	Scholarship	19.58.74.720
То	Affiliation Fee	48,94,305	By	Transportation Collection	24,40,950
То	Annual Maintance Charges	(m)	Bv	Admn & University Fee	1,49,67,000
То	Audit Fee	35,400	Bv	AICTE (Grants)	17.59.762
То	Bank Charges and Interest	23,952	Bv	Akshara 2020	55,000
То	Building Maintenance	5,54,445	Bv	Cricket Ground Rent	1.58,960
То	College Celebration	67,400	Вv	Interest Receipts	4,438
То	College Certificate		_		.,
То	Common Service Fee	53,43,000			
То	Computer Maintenance	20,11,863			
То	Conveyance Charges	31,695			
To	Electricity Charges	20,35,796			
То	ESI Contribution	1,15,184			
To	Faculty Development Programme	1,29,682			
To	Garden Maintanance	1,05,100			
То	Honororium	3,77,000			
To	Inspection Fee	65,020			
To	Journals & Periodicals	7,49,541			
To	Lab Maintenance	11,63,887			
To	Library Maintenance	2,13,000			
To	Meetings & Seminars	5,30,076			
То	Membership & Subscription	1,54,530			
То	News Paper & Periodicals	16,038			
To	Office Maintenance	3,21,238	1		
То	PF Contribution Employer	25,68,826			
То	Postage & Courier	1,850			
To	Printing & Stationary	47,28,331			
То	Rates & Taxes	35,83,402			
То	R&D Expenses	36,68,579			
То	Repairs & Maintenance	2,69,017			
То	Salaries	25,07,01,256			
To	Security Services	7,39,626			
To	Staff Ratification Fee	3,08,000			
То	Staff Welfare	7,04,762			
To	Student Development Expenses	1,31,448			
To	Student Welfare Expenses	6,16,820			
To	Telephone Charges	50,999			
To	Training and Placement	3,90,452			
To	Travelling Expenses	5,04,650			
То	U G C Project Expenses	82,826			
To	Vehicle Maintenance	26,106			
To	Workshop	3,000			
To	Depreciation	4,58,82,651			
	Excess of Income Over	5,82,49,551			
	Expenditure				
		39,56,52,110			39,56,52,110



Principal Malia Reddy Engineering College Malsammaguda, Dhulapally, (Post Via Kompally), Sec'bad-500100

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FIXED ASSETS SCHEDULE AS ON 31-03-2020

PARTICULARS	DEPN	OP. BAL	ADDII	LIONS	TOTAL	DEPREC-	CLG. BAL
	RATE	01-04-2019	Bef. Sep	Aft. Sep	31-03-2020	IATION	31-03-2020
LAND		18,70,000			18,70,000	ł	18,70,000
AIR CONDITIONARS	15%	11,77,426			11,77,426	1,76,614	10,00,812
BUILDGING & CIVIL WORKS	10%	17,92,37,021	1,87,69,967	1,40,05,027	21,20,12,015	2,05,00,950	19,15,11,064
COMPUTERS & SOFTWARES	40%	2,13,71,083	1,32,85,653	69,620	3,47,26,356	1,38,76,618	2,08,49,737
ELECTRICAL FITTINGS	15%	4,42,493			4,42,493	66,374	3,76,119
FURNITURE & FIXTURES	10%	1,07,38,862	18,59,435	17,36,660	1,43,34,957	13,46,663	1,29,88,294
GENERATOR	15%	1,76,164			1,76,164	26,425	1,49,740
JOHN LIFT	15%	6,937			6,937	1,041	5,896
LIBRARY BOOKS	10%	66,49,286	6,18,171	5,11,928	77,79,385	7,52,342	70,27,043
LAB EUIPMENT	15%	1,98,50,548	9,65,375	7,73,597	2,15,89,520	31,80,408	1,84,09,112
OFFICE EQUIPMENT	15%	51,32,561	9,62,100	22,62,475	83,57,136	10,83,885	72,73,251
SPORTS & MUSICALS	15%	16,60,691		1,55,755	18,16,446	2,60,785	15,55,661
VEHICLES	15%	2,79,55,092	20,00,000		2,99,55,092	44,93,264	2,54,61,828
XEROX MACHINE	15%	7,81,883			7,81,883	1,17,283	6,64,601
	<u> </u>	27,70,50,047	3,84,60,701	1,95,15,062	33,50,25,810	4,58,82,651	28,91,43,159



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Principal Malia Reddy Engineering College Maisammaguda, Dhulapally, (Post Via Kompally), See'bad-500100.

LIABILITIES	AMOUNT Rs.	ASSETS	AMOUNT Rs.
GENERAL FUND	(1,59,43,473)	FIXED ASSETS	36,50,45,976
SECURED LOANS	8,64,653	DEPOSITS	16,43,25,627
SUNDRY CREDITORS	1,29,83,180	PURCHASE & ADVANCES	2,05,83,459
OTHER CURRENT LIABILITIES	68,74,29,741	OTHER CURRENT ASSETS	28,92,23,257
INTER TRANSFER RECEIPTS	14,12,51,819	CASH & BANK BALANCES	1,11,27,600
TEQIP-II Grant	2,37,20,000		
	85,03,05,920		85,03,05,920

For M S R & ASSOCIATES CHARTERED ACCOUNTANTS Gitaramaias & ASSO (M. SITARAMAIAH) Partner M. No. 221565 F.R.No. 014318S 内 Firm Reg. No. 014318S REDACCO

Principal Malla Reddy Engineering College Maisammeguda, Dhulapally, (Post Via Kompally), Sec'bad-500100.

CMR EDUCATIONAL SOCIETY

(MALLA REDDY ENGINEERING COLLEGE)

INCOME & EXPENDITURE ACCOUNT AS ON 31-03-2021

	EXPENDITURE	AMOUNT		INCOME	AMOUNT
_		Rs.	-		Rs.
То	ADMISSION FEE	14,51,600	By	AICTE (GRANTS)	35,97,110
То	ADVERTISEMENT CHARGES	4,33,394	By	EXAM FEE(RECEIPTS)	4,82,58,745
То	AFFILIATION FEE	4,95,400	By	FEE COLLECTIONS	42,89,34,001
То	AICTE GRANTS EXP	99,542	By	GRANTS RECD	
То	ANNUAL MAINTENANCE CHARGES		By	INTEREST RECEIPTS	2,21,172
То	BANK CHARGES AND INTEREST	28,676	By	OTHER INCOME	3,945
То	BUILDING MAINTENANCE	26,41,157	By	PROJECT FEE(RECEIPTS)	39,93,050
То	COMMON SERVICE FEE		By	Q SPIDER TRAINING(RECEIPTS)	23,62,200
То	COMPUTER MAINTENANCE	20,34,123	By	SDP FEE(RECEIPTS)	14,46,300
То	CONSULTANCY CHARGES		By	TRAINING AND PLACEMENT	1,21,500
То	DONATIONS	8 4 2	By	TRANSPORTATION COLLECTION	
То	ELECTRICITY CHARGES	13,87,450	By	TRANSPORTATION RECOVERY	3,74,400
То	E S I CONTRIBUTION	1,26,146	By	UNIERSITY & ADMN FEE	1,67,22,500
То	EXAM FEE(EXPENSES)	47,63,212	By	WORKSHOP OXFORD(RECEIPTS)	1,74,560
То	GARDEN MAINTANANCE	6,36,330			
To	GRANTS UTILISATION	15		- 4	
To	HONORORIUM	2,75,000			
То	HOSTEL EXPENSES	19,26,376			
То	INSPECTION FEE				
To	INTERNET CHARGES	7,80,000			
To	INTERNSHIP CHARGES	-			
To	IT PENALTIES	312			
To	JOURNALS & PERIODICALS	3,13,028			
To		*			
10		1,17,000			
10	MEETINGS & SEMINARS	7,04,803			
	MEMBERSHIP & SUBSCRIPTION	83,615			
10		5			
10	MUNCIPAL TAXES				
10		=			
10		4,41,626			-
	DRIENTATION DAY EXPS.				
		22,23,238			
	PRINTING & STATIONARY	10 00 626			
		17 22 000			
	O SPIDER TRAINING(EXPENSES)	11 20 000			
	BATES & TAXES	9 65 021		1	
	R&D EXPENSES	8 60 113			
	REPAIRS & MAINTENANCE	23 656			
To	SALARIES	24 88 64 851			
To	SDP FEE(EXPENSES)	13 28 000			
To	SECURITY SERVICES	36 70 845			
То	STAFF RATIFICATION	11 000			
То	STAFF WELFARE	2 000			
То	STUDENT DEVELOPMENT EXPENSES	6.80.000			
To	STUDENT WELFARE EXPENSES	1.50.800			
To	TELEPHONE CHARGES	2,53,779			
To	TRAVELLING EXPENSES	41,402	-		
To	VEHICLE MAINTENANCE	39,73,750			
To	DEPRECIATION	4,70,90,403			
	Excess of Income Over	17 25 00 470			
	Excess of income over	17,25,99,179			
-	CAPENDITURE	50.00.00.400	-		
-	For MSR & ASSE	CIA-92-00,483	-		50,62,09,483
#	CHARTERED ACCO	UNTANTS	4		
1	(FR.No 014318S)	vamaio	th	X in	
15	11. Site		2	All	
1	(M. SI	TARAMAIAH)	-	Precipal	
	A A A A A A A A A A A A A A A A A A A	A. No. 2215		Malla Reddy Engineer	ing College
	Firm Reg	No 01431		Maisammaguda Di	ing conege
				(Post Via Kompality)	the party,
				in our via nompany), See	Dad-500100-

BALANCE SHEET SCHDULES AS ON 31-03-2021

CENERAL ELIND	(18 85 42 652)
ADD' FXCESS OF INCOME	17.25.99.179
OVER EXPR	
=	(1,59,43,473)
SECURED LOANS:	4 33 348
C BANK VEHICLE LOAN - 677360300	4,32,310
HDFC VEHICLE LOAN A/C NO:-92595	4,02,000
-	8,64,653
OTHER CURRENT LIABILTIES:	
E S I PAYABLE	1,570
GRANT LIABILITY	-
IBM STUDENT TRAINING	40 100
IEEE REGISTRATION CHARGES	9,600
NSS	1,43,450
OTHER ADVANCES	*
PF PAYABLE	1,29,226
PT PAYABLE	59,250
SALARIES PAYARI E	68 65 15 539
STAFF CLUB PAYABLE	2,97,750
STIPEND	
TDS PAYABLE	1,73,000
TDS PAYABLE (CONTRACTORS)	11,381
TDS (PROFESSIONAL)	4,875
-	68 74 29 741
INTED TRANSFERS RECEIPTS	00,14,20,141
CMRES	(4.81.51.238)
MRCET	7,60,70,511
MRCP	7,87,14,098
MRIM	1,55,34,715
MRPC _	1,90,83,733
	14,12,51,819
DEPOSITS:	63 436
	16 42 62 201
TELEPHONE DEPOSIT	
	16,43,25,627
OTHER CURRENT ASSETS:	
FEE RECEIVABLE	21.14.49.257
INTEREST RECEIVABLE	
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE	7,77,74,000
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE	7,77,74,000
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21	7,77,74,000
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE	7,77,74,000
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANCE A DVANCES (ADESC TEOID)	7,77,74,000
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (JREC-TEQIP) LOANS & ADVANCES (JECIPAMPEC)	99,68,164 (99,68,164
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE TDS RECEIVBLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC)	7,77,74,000 99,68,164 (99,68,164)
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE TDS RECEIVBLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC)	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC)	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVBLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC)	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH & BANK BALANCES: CASH CANARA BANK - 6773214000031 CANARA BANK - 71	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH & BANK BALANCES: CASH CANARA BANK - 6773214000031 CANARA BANK - 71 HDEC BANK A/C NO-5020049855331	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH & BANK BALANCES: CASH CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C.NO:-5020049855331 ICICI BANK A/C.NO:-180701001260	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH & BANK BALANCES: CASH CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C.NO:-5020049855331 ICICI BANK A/C.NO:-180701001260 (MRPGC)-SBI - 3066612362	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1 1,08,256 1,25,103
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH & BANK BALANCES: CASH CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-180701001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256 1,25,103 1,25,103
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVBLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C.NO:-5020049855331 ICICI BANK A/C.NO:-180701001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197 SBH- 62186715641(CF)	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,25,103 1,25,103 155 27,285 1,02,576
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVBLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C.NO:-5020049855331 ICICI BANK A/C.NO:-180701001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197 SBH - 62186715812 (ME)	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256 1,25,103 155 27,285 1,88,858
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-180701001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197 SBH - 6218671576(ERF) SBH - 62186715776(ERF) SBH - 62186715812 (MF)	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1 1,08,256 1,25,103 1,25,103 1,55 27,285 1,86,858 12,688 11,968
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVBLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-180701001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197 SBH - 62186715541(CF) SBH - 621867155412 (MF) SBH - 62186715812 (MF) SBH - 62186715812 (MF) SBH - 62186715812 (MF) SBH - 62186715812 (MF)	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1 1,08,256 1,25,103 155 27,285 1,80,858 12,688 11,968 11,968 1,13,518
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-180701001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197 SBH - 6218671576(ERF) SBH - 62186715776(ERF) SBH - 62186715812 (MF) SBH - 62186715812 (MF) SBH - 62186715840 UBI-327401010023092	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1 1,08,256 1,25,103 1,25,103 1,55 27,285 1,86,858 12,688 11,968 1,13,518 16,074
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-180701001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197 SBH - 6218671576(ERF) SBH - 6218671577(ERF) SBH - 62186715776(ERF) SBH - 62186715776(ERF) SBH - 62186715812 (MF) SBH - 62186715776(ERF) SBH - 621867157776(ERF) SBH - 621867157777777777777777777777777777777777	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1 1,08,256 1,25,103 1,55 27,285 1,86,858 12,688 11,968 1,13,518 16,074 5,59,423
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-1807011001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197 SBH - 62186715776(ERF) SBH - 62186715776(ENF) SBH - 621867157776(ENF) SBH - 621867157776(ENF) SBH - 621867157776(ENF) SBH - 6218671577776(ENF) SBH - 621867157777777777777777777777777777777777	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256 1,25,103 1,55 27,285 1,80,858 12,688 11,968 1,13,518 16,074 5,59,423 1,13,652 66,97,57
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH & BANK BALANCES: CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-180701001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197 SBH - 6218671576(ERF) SBH-62186715812 (MF) SBH-62186715867 (FDF) SBH-62186715867 (FDF) SBH-6218671587 (FDF) SB	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256 1,25,103 1,55 27,285 1,80,858 12,688 11,968 1,13,518 16,074 5,59,423 1,13,652 66,80,657 1,10,468
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVBLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-5020049855332 IMI-621867155847 (DF) SBH-621867155847 (DF) SBH-62186715847 (D	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256 1,25,103 1,55 27,285 1,80,858 12,688 11,3652 1,35,188 1,13,518 1,074 5,59,423 1,13,652 66,80,537 1,10,468 21,74,036
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVBLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH & BANK BALANCES: CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-5020033 (GRANTS) IDI-711401010050031 (AUTO) IDIF-7114010100500031 (AUTO) IDIF-71140100500031 (AUTO) IDIF-7	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256 1,25,103 1,55 27,285 1,86,858 12,688 11,3651 1,3518 1,13,518 1,6074 5,59,423 1,13,652 66,80,537 1,10,468 21,74,036
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVABLE TDS RECEIVBLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH & BANK BALANCES: CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-180701001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197 SBH-62186715812 (MF) SBH-62186715867 (FDF) SBH-62186715867 (FDF) SBH-6218671587 (FDF) SBH	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256 1,25,103 1,55 27,285 1,86,858 12,688 11,3518 1,13,518 1,074 5,59,423 1,13,652 66,80,537 1,10,468 21,74,036 18,961
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVABLE TDS RECEIVBLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH & BANK BALANCES: CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-180701001260 (MRPGC)-SBI - 3066612362 (MRPGC) - UBI - 327401010036197 SBH-62186715641(CF) SBH-62186715867 (MF) SBH-62186715867 (MF	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256 1,25,103 1,55 27,285 1,86,858 12,688 1,13,518 1,13,518 1,13,518 1,13,518 1,13,559,423 1,13,652 66,80,537 1,10,468 21,74,036 18,961 3,39,979
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH & BANK BALANCES: CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-180701001260 (MRPGC)-SBI - 306612362 (MRPGC) - UBI - 327401010036197 SBH-62186715641(CF) SBH-62186715867 (FDF) SBH-62186715867 (FDF) SBH-6218671587 (FDF) SBH-62186715	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256 1,25,103 1,55 27,285 1,86,858 12,688 1,13,518 1,13,518 1,13,518 1,13,559,423 1,13,652 66,80,537 1,10,468 21,74,036 18,961 3,39,979
INTEREST RECEIVABLE LAND PURCHASE ADVANCE SCHOLARSHIP RECEIVABLE TCS RECEIVABLE TCS RECEIVABLE TDS RECEIVABLE - 2020 - 21 TDS RECEIVABLE - 2020 - 21 LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (MREC-TEQIP) LOANS & ADVANCES (TEQIP-MREC) CASH CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 6773214000031 CANARA BANK - 71 HDFC BANK A/C NO:-5020049855331 ICICI BANK A/C NO:-502	7,77,74,000 99,68,164 (99,68,164) 28,92,23,257 1,82,916 1,70,343 1,75,378 1,08,256 1,25,103 155 27,285 1,80,858 12,688 11,968 1,35,18 1,35,18 1,35,18 1,35,18 1,35,18 21,74,036 18,961 3,39,979 1,11,27,600

Principal Maila Reddy Engineering College Matsammaguda, Dhulapally, (Post Via Kompally), See'bad, 500 (200

FIXED ASSETS SCHEDULE AS ON 31-03-2021

PARTICULARS	DEPN	OP. BAL	TIDDA	SNOL	TOTAL	DEPREC-	CLG. BAL
	RATE	01-04-2020	Bef. Sep	Aft. Sep	31-03-2021	IATION	31-03-2021
AND		18,70,000			18,70,000		18,70,000
AIR CONDITIONARS	15%	10,00,812			10,00,812	1,50,122	8,50,691
3UILDGING & CIVIL WORKS	10%	19,15,11,064	2,64,81,793	6,91,29,360	28,71,22,217	2,52,55,754	26,18,66,464
COMPUTERS & SOFTWARES	40%	2,08,49,737	4,30,000	67,51,824	2,80,31,561	98,62,260	1,81,69,302
ELECTRICAL FITTINGS	15%	3,76,119		11,580	3,87,699	57,286	3,30,412
-URNITURE & FIXTURES	10%	1,29,88,294	3,40,000	56,37,815	1,89,66,109	16,14,720	1,73,51,389
BENERATOR	15%	1,49,740		7,80,000	9,29,740	80,961	8,48,779
OHN LIFT	15%	5,896			5,896	884	5,012
IBRARY BOOKS	10%	70,27,043		1,85,387	72,12,430	7,11,974	65,00,456
AB EUIPMENT	15%	1,84,09,112	2,52,356	36,95,799	2,23,57,267	30,76,405	1,92,80,862
DEFICE EQUIPMENT	15%	72,73,251	24,47,893	8,36,082	1,05,57,226	15,20,878	90,36,348
PORTS & MUSICALS	15%	15,55,661	27,950	1,28,989	17,12,600	2,47,216	14,65,384
/EHICLES	15%	2.54,61,828	20,50,000	38,06,392	3,13,18,220	44,12,254	2,69,05,967
CEROX MACHINE	15%	6,64,601			6,64,601	99,690	5,64,911
		28,91,43,159	3,20,29,992	9,09,63,228	41,21,36,379	4,70,90,403	36,50,45,976



Mella Reddy Engineering Collegé Maisammaguda, Dhulapaily, Principal

(Post Via Kompally), See bad-500100,

LIABILITIES	AMOUNT Rs.	ASSETS	AMOUNT Rs.
GENERAL FUND	15,47,23,828	FIXED ASSETS	47,41,67,098
SECURED LOANS	1,42,712	DEPOSITS	8,93,25,627
SUNDRY CREDITORS	75,37,125	PURCHASE & ADVANCES	2,14,98,893
OTHER CURRENT LIABILITIES	62,32,46,573	OTHER CURRENT ASSETS	28,84,77,087
INTER TRANSFER RECEIPTS	7,54,74,683	CASH & BANK BALANCES	1,13,76,216
TEQIP-II Grant	2,37,20,000		
	88.48,44.921		88,48,44,921

For M S R & ASSOCIATES CHARTERED ACCOUNTANTS sitaramarah Y - 9



147

(M. SITARAMAIAH) Partner M. No. 221565 Firm Reg. No. 014318S

Principal Malla Reddy Engineering College Malsammaguda, Dhulapally, (Post Via Kompally), See'bad-500100.

INCOME & EXPENDITURE ACCOUNT AS ON 31-03-2022

	EXPENDITURE	AMOUNT		INCOME	AMOUNT
		Rs.			Rs.
То	AICTE Grants	2.87.637	Bv	Fee Collections	48 15 62 000
То	Admission Fee	36.66.700	Bv	Admn & University Fee	1,75,29,500
To	Advertisement Charges	1.31.978	By	AICTE (Grants)	8 10 960
То	Affiliation Fee	36.38.364	By	Exam Fee(Receipts)	2 12 21 352
То	Annual Maintenance Charges	2.12.341	Bv	Grants Recd.	
То	Audit Fee	6.00.000	Bv	Interest on FDs	
То	Bank Charges and Interest	90.279	Bv	Interest Receipts	-
То	Building Maintenance	7,80,686	Bv	Other Income	11.46.27.200
То	Common Service Fee	34,05,000	By	Project Fee(Receipts)	20.000
То	Computer Maintenance	16,85,923	By	Reliance Jio	
То	Consultancy Charges	87,500	By	Rent Received	4,90,000
То	Donations	25,75,000	By	Training and Placement	22.873
To	Electricity Charges	17,43,073	By	Transportation Collection	
To	ESI Contribution	1,16,274	By	Transportation Recovery	6.15.600
То	Exam Fee(Expenses)	70,32,852	_		
То	Garden Maintenance	1,96,800			
To	Honororium	16,74,030			
То	Hostel Expenses	4,99,865			
То	Journals & Periodicals	9,40,534			
To	Lab Maintenance	8,44,681			
То	Meetings & Seminars	14,58,860			
To	Membership & Subscription	1,30,980			
То	Office Maintenance	3,18,386			
To	Paper Publications	2,71,000			
To	PF Contribution Employer	17,04,098			
To	Printing & Stationary	51,07,373			
To	Project Fee	3,55,800			
To	Rates & Taxes	25,880			
To	R&D Expenses	1,16,710			
To	Repairs & Maintenance	2,64,987			
To	Salaries	35,35,57,420			
To	Security Service Charges	15,35,254			
To	Staff Ratification	4,51,000			
To	Staff Welfare	59,000			
To	Student Welfare Expenses	1,56,800			
To	Travelling Expenses	18,12,682			
To	Vehicle Maintenance	76,99,228			
To	DEPRECIATION	6,09,97,208			
	Excess of Income Over	17,06,67,301			
	Expenditure				
-		63,68,99,485			63,68,99,485

For M S R & ASSOCIATES CHARTERED ACCOUNTANTS Staramarou m. (M. SITARAMAIAH) ASSOC (m. 9) (ARAIVIAIATI) Partner M. No. 221565 Firm Reg. No. 0143185 FR No 0143185

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ERED ACCO

Principal Malla Reddy Engineering College Malsammaguda, Dhulapally, (Post Via Kompally), See'bad-500100:

CMR EDUCATIONAL SOCIETY

(MALLA REDDY ENGINEERING COLLEGE)

BALANCE SHEET SCHDULES AS ON 31-03-2022

GENERAL FUND:		
GENERAL FUND	(1,59,43,473)	
ADD: EXCESS OF INCOME	17,06,67,301	
OVER EXPR.		
	15,47,23,828	
SECURED LOANS:		
C.BANK VEHICLE LOAN - 677360300	71,321	
C.BANK VEHICLE LOAN - 677360300	71,391	
	1.42,712	
E S I Pavabla	1 5 2 5	
Ibm Student Training	40,100	
IEEE Bogistration Chargos	40,100	
	1 54 200	
	1,04,200	
PT Parable	1,21,210	
PT Payable	63,900	
Remuneration Payable	44,000	
Salaries Payable	02,10,21,875	
Staff Club Payable	4,18,850	
The Payable (Canton to a)	1,45,759	
TDS (Declarations)	19,048	
IDS (Protessional)	6,500	
_	62,32,46,573	
INTER TRANSFERS RECEIPTS:		
CMRES	(8,67,05,113)	
MRCET	5,08,76,761	
MRCP	7,69,25,848	
MRIM	1,62,68,754	
MRPC	1,81,08,433	
	7,54,74,683	
DEPOSITS:		
ELECTRICITY DEPOSIT	63.426	
FIXED DEPOSITS	8,92,62,201	
-	8.93.25.627	
OTHER CURRENT ASSETS	electrologi	
Foo Boosivable	10 00 70 005	
Pee Receivable Sebelerable Reseivable	12,30,70,695	
Scholarship Receivable	10,44,21,100	
	1,30,292	
I DS RECEIVADIE	49,000	
LOANS & ADVANCES (MREC-TEQIP)	99,68,164	
LOANS & ADVANCES (TEQIP-MREC)	(99,68,164)	
	28,84,77,087	
CASH & BANK BALANCES:		
Cash	1,07,008	
Canara bank - 6773214000031	49.812	
Canara Bank - 71	1.52.495	
ICICI-769401000097 (Training & Place	19 643	
ICICI Bank-769401000025 (Faxm Bran	18 15 867	
HDEC Bank A/C No:-5020049855331	10,10,007	
ICICL Bank-769401000078 (Grante)	B 10 070	
CICI Bank A/C No: 190704004260	0,12,076	
(MDDCC) SEL 3066649369	(3,64,593)	
(MRRCC) R 20740404000407	1,25,103	
(WIKFGC) - UBI - 327401010036197	155	
SBR- 62186/15641(CF)	26,636	
SBH - 62186715776(ERF)	1,86,209	
SBH-62186715812 (MF)	12,039	
SBH-62186715867 (FDF)	11,319	
SBI-30666122940	78,13,359	
	2 20 220	
SB- MG - 62218846310 - Tequip	3,39,330	
SB- MG - 62218846310 - Téquip UBI-327401010023092	3,39,330	

1,13,76,216



Principal Mala Reddy Engineering College Malsammaguda, Dhulapally, (Post Via Kompally), Ses'bad-500100,

FIXED ASSETS SCHEDULE AS ON 31-03-2022

PARTICULARS	DEPN	OP. BAL	ADDI	LIONS	TOTAL	DEPREC-	CLG. BAL
	RATE	01-04-2021	Bef. Sep	Aft. Sep	31-03-2022	IATION	31-03-2022
LAND		18,70,000			18,70,000	30	18,70,000
AIR CONDITIONARS	15%	8,50,691			8,50,691	1,27,604	7,23,087
BUILDGING & CIVIL WORKS	10%	26 18,66,464	6,40,31,532	6,06,42,251	38,65,40,247	3,56,21,912	35,09,18,335
COMPUTERS & SOFTWARES	40%	1,81,69,302	21,83,540	1,69,68,721	3,73,21,563	1,15,34,881	2,57,86,682
ELECTRICAL FITTINGS	15%	3,30,412		73	3,30,412	49,562	2,80,851
FURNITURE & FIXTURES	10%	1.73,51,389	94,75,000	13,85,000	2,82,11,389	27,51,889	2,54,59,500
GENERATOR	15%	8,48,779			8,48,779	1,27,317	7,21,462
JOHN LIFT	15%	5.012			5,012	752	4,260
LIBRARY BOOKS	10%	65.00,456	2,07,023		67,07,479	6,70,748	60,36,731
LAB EUIPMENT	15%	1.92,80,862	21,89,831	81,59,566	2,96,30,259	38,32,571	2,57,97,687
OFFICE FOUIPMENT	15%	90.36.348	27.11.886	17,89,180	1,35,37,414	18,96,424	1,16,40,991
SPORTS & MUSICALS	15%	14.65,384	1,00,000	1,74,800	17,40,184	2,47,918	14,92,266
VEHICLES	15%	2.69.05,967	1,00,000		2,70,05,967	40,50,895	2,29,55,072
XFROX MACHINE	15%	5.64.911			5,64,911	84,737	4,80,174
		36,50,45,976	8,09,98,812	8,91,19,518	53,51,64,306	6,09,97,208	47,41,67,098
		-					



Principal Mala Reddy Engineering College Maisammaguda, Dhulapally, (Post Vla Kompally), Sec'bad-500100,

Principal fe



To The Principal Malla Reddy Engineering College (MREC) Misammaguda, Hyderabad

Sir,

Sub: Project on development of Face recognition using drones by Telecom technology – technical support request reg.

Reference to your email dated 12-11-2022 we are happy to know that MREC is planning to take up project on Face recognition using drones by Telecom technology funding agency.

We herewith give our consent for cooperation in implementation of above project.

Thanks and Regards

For Vodafone Idea Ltd



Authorized Signatory



Vodafone Idea Limited (formerly Idea Cellular Limited) An Aditya Birla Group & Vodafone partnership 2nd Floor, Varun Tower II, Begumpet, Hyderabad – 500016, Telangana, India. T: +91 40 71718560 I F:+91 040 27764700

Registered Office:

Suman Tower, Plot no. 18, Sector 11, Gandhinagar – 382011, Gujarat. T: +91 79667 14000 | F: +91 79 2323 2251 CIN: L32100GJ1996PLC030976



GST NO: 37BKJPK7555A1Z3

Letter of Interest

RIL:04/NOV/22

To The Principal Malla Reddy Engineering College (MREC) Misammaguda, Hyderabad

Dear Sir,

Sub: Development of a project on face recognition using telecom technology - Technical support

Reference to your email dated on 10-11-2022 we are happy to know that MREC is planned to take new project on Face recognition using drones by Telecom technology funding agency.

We herewith give our Interest in executing project with your cooperation in implementation of above project. Kindly do the needful to get this executed in time to better for the future relation. We have a good team to support in all forms.

Thanking You

Best regards

K. Mehos Skikanth

K. Mehar Sasikantifor

V & O: REINV Labs, Brodipet 2/17 lane Guntur ||AP: 522002 | meharsasikanth@reinvlabs.com R&D LAB: NIT Warangal, Warangal. || TS: 506004 | prakash@reinvlabs.com



Unistring Tech Solutions Pvt. Ltd. GSTIN: 36AABCU8691B1Z7 CIN: U72200TG2007PTC052628

Letter of Consent for support

To The Principal Malla Reddy Engineering College (MREC) Misammaguda, Hyderabad

Sir,

Sub: Project on development of Face recognition using drones by Telecom technology – technical support request reg.

Reference to your email dated 12-11-2022 we are happy to know that MREC is planning to take up project on Face recognition using drones by Telecom technology funding agency.

We herewith give our consent for cooperation in implementation of above project.

With Regards

Dr S Nagendra Babu Executive Director Unistring Tech solutions Pvt ltd

Registered office:

8th Floor (Regus Grandeur Business Centre), SLN Terminus, Survey No. 133, Beside Botanical Garden, Gachibowli, Hyderabad, Telangana, INDIA - 500032.

Development Center:

D.No: 2-91/77/2/ST/11,Signature Towers (11th Floor), Opp. Botanical Garden Rd, Venkat Enclave, Whitefields, Kondapur, Hyderabad, Telangana, INDIA - 500084.

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