3.1.1. Grants received from Government and non-governmental agencies for research projects, endowments, Chairs in the institution during the last five years (INR in Lakhs)

3.1.1.1: Total Grants from Government and non-governmental agencies for research projects , endowments, Chairs in the institution during the last five years (INR in Lakhs)

SUMMARY REPORT

S.NO	ACADEMIC YEAR	Grant Received	
		Dept	Fund in INR
1	2018-2019	Civil	18,79,274/-
		ECE	2,82,000/-
		Mech	3,48,000/-
2	2017-2018	Mech	30,000/-
3	2016-2017	CSE	2,24,763/-
4	2015-2016	Mech	1,73,878/-
5	2014-2015	Mech	22,93,000/-

PRINCIPAL

SREYAS INSTITUTE OF ENGG.&TEC

9-39, Sy.No: 107, Tattiannaram (V).

GSI, Bandlaguda. Nagole. Hyd-68.

తెలంగాణ तेलंगाना TELANGANA

522619

M. RAVI KUMAR
Stamp Vendor Lic.No.15-14-051/2013
H.L.No.15-14-056/2014
#3-5-65, Champapet, Saroornagar (M), R.R. Dist -79
Cell: 9703687222

AGREEMENT No.   203/EE/RJNR @ 11/52/GHMC/2018-19, Dt.04-08-2018.

Amount of Estimate: Rs. 5,10,000=00
Amount of Contract: Rs. 3,05,722=00

Name of the Work : Laying of SWG 300mm dia pipe line from H.No. 6-11-28 to H.No. 6-10-26/1/B inShivarampally in Ward No. 60 in Rajendranagar Circle, GHMC (Est. Amount Rs. 5.10 Lakhs)

<<>> <O> <<>>

Agreement made at Hyderabad on this 4th August 2018 between   SRI. N. DEVENDER SAGAR, Hyderabad, on one part and the Executive Engineer, GHMC RJNR circle another part. Where by the parties have agreed to the terms & conditions set on in L.S agreement. Agreement made for the work Laying of SWG 300mm dia pipe line from H.No. 6-11-28 to H.No. 6-10-26/1/B inShivarampally in Ward No. 60 in Rajendranagar Circle, GHMC (Est. Amount Rs. 5.10 Lakhs) Rs. 3,05,722=00 (Rupees Three Lakhs Five Thousand Seven Hundred Twenty Two Only) Executed on this day.

Contractor

Executive Engineer,
Rajendranagar Circle-XI GHMC

GREATER HYDERABAD MUNICIPAL CORPORATION
RAJENDRANAGAR CIRCLE

From

The Executive Engineer,
Rajendranagar Circle,
Greater Hyderabad Municipal Corporation,
Hyderabad.

To

M/s.SREYAS ENGINEERING COLLEGE,
Beside Indu Aranya, GSI
Bandlaguda, Nagole,
Hyderabad,
Telangana – 500068
Phone : Rajesh : 8885218679
          Achyuth : 8125660133
HOD-Satyanarayana : 9989991779
Mail Id. qcghmc@sreyas.ac.in

Lr. No.E/ /QC/RJNR/GHMC/2019-20   **Dated: - -2019**

Sir,

Sub:- GHMC-RJNR- Laying of SWG 300 mm dia pipe line to H.No. Althaf Hotel to H.No. 2-20-83, Mohanmondnagar Haldour nagar & W.No. 57-Sulemannagar in RJNR Circle GHMC-work order issued -Reg.

Ref:- W.O.No. /EE/ RJNR @ X1/GHMC/201 -1 .. Date:

1.	Amount of Estimate	:	Rs. 6,00,000 Lakhs
2.	Agency Name	:	M/s HYDER Ali khan
3.	Date of Mark Out	:	24/12/18

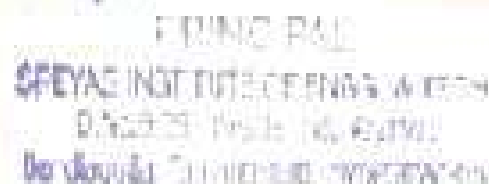With reference of the subject cited, it is to inform that the above work is completed.

Hence it is requested to issue Quality Control report.

Completion Plan is herewith enclosed for information and necessary action.

PRINCIPAL
SREYAS INSTITUTE OF ENGINEERING

Encl: Plan ( ) No's

Yours Faithfully

Executive Engineer
Rajendranagar Circle @ XI, GHMC

A-GRADE

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Govt. Act No. 30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)

Dr. N. YADAIAH
B.E (OUCE), M.Tech. (IIT KGP), Ph.D (JNTU)
SMIEEE, FIE, FIETE, MSSI, MISTE
Professor of EEE &
REGISTRAR

Project File No.JNTUH TEQIP-III/CRS/2019/MECH/08   Dated.22.07.2019

To
1. The Principal,
   Sreyas Institute of Engg Technology
2. The Principal,
   JNTUH College of Engineering and Technology.

Subject: Award of for the project titled " **Development of mobile Air Conditioner with Eco Friendly refigeriment 134a** " under Collaborative Research Scheme, TEQIP III, JNTUH to

1. Principal Investigator: **Dr. Suresh Akella**
   Department: Mech
   Institution Name: **Sreyas Institute of Engg Technology**
2. Co-Principal Investigator-1: **Dr. AVS S K S Gupta,**
   Department: Mech
   Institution Name: JNTUH College of Engineering and Technology

Dear Sir/Madam,

    This is to inform you that the project mentioned above is approved with sanction amount of 3,00,000/- (Rupees Three Lakhs only) under Collaborative Research Scheme, TEQIP-III, JNTUH with the following terms and conditions.

1. The institute where Principal Investigator is working becomes the lead institute

2. The grant from TEQIP-III will be transferred to Principals account of lead institute in three installments.

3. A separate account for the project may be created.

4. Principal is responsible for transfer of funds to the project account within one week after the release of funds from university. In case if principal fails to do so, it will be recovered from institute.

5. Principals should permit to use existing facilities for project implementation if requested.

Asuresh
PRINCIPAL
SREYAS INSTITUTE OF ENGG.&TECH
9-39, Sy.No: 107, Tattiannaram (V)
GSI, Bandlaguda, Nagole, Hyd-6

6. In case if both PI and Co-PI-1 are from affiliated institute, a joint account is to be operated by PI, Co –PI-1 and Principal of lead institution.

7. In case of collaborative research project carried under twinning, PI and Principal of lead institute will jointly operate the account

8. In case either PI or Co-PI-1 withdraws from the project, Principals of the respective institution shall find the replacement and inform the same to the University for Approval.

9. A declaration form duly signed by Principal (Form H) abiding the rules listed above shall be submitted along with account details within 3 days after receiving the sanction letter for the transfer of research grant.

10. Any discrepancy with PI and Co- PI, while implementing the project, to be communicated with details, to the University.

11. After the completion of every project, Principals of lead institute should ensure that all non consumables procured for projects become the property of institution and to be labeled TEQIP-III/ (Number).

12. Principal of the lead institute should submit the list of all non consumables procured for all Projects at the end of collaborative research scheme through duly filled in Form I.

13. Principals will be informed if any directions from NPIU or changes in guidelines made by TEQIP-III JNTUH relevant to the Collaborative Research Scheme from time to time. Those guidelines should be followed in due course of time, till the completion of TEQIP-III Project

14. For any discrepancies and other relevant matters, decision of the University is final.

You are requested to acknowledge the receipt of this letter.

With Regards,

Registrar
Jawaharlal Nehru Technological University Hyderabad

Copy to:
PA to Hon'ble Vice Chancellor, JNTUH for kind information.
Office File
Copy to the concerned

అంధ్రప్రదేశ్ आन्ध्र प्रदेश ANDHRA PRADESH

No. 2612 Dt: 14/2/14 Rs. 100/-

old to Dr. Suresh. Akella

S/o.D/o.W/o. Late A.S.R. Murthy

R/o Hyd

for whom Self

AGREEMENT BETWEEN HOST INSTITUTION/BUSINESS INCUBATOR AND INCUBATEE

Under scheme for "Support for Entrepreneurial and Management Development of SMEs through Incubators"

This agreement is made on this 28th day of February (Month) 2014.

BETWEEN

J.N.T.U.H. College of Engineering, J.N.T.U.H., Kukatpally, Hyderabad (hereinafter referred to as Host Institution/BUSINESS INCUBATOR, the expression which unless repugnant to context shall be deemed to include its successors, administers and executors) of the first part

AND

Dr. Suresh Akella

(hereinafter referred to as INCUBATEE, the expression which unless repugnant to context shall be deemed to include its successors, administers and executors) of the second part.

1.0   PREAMBLE

WHEREAS, the HOST INSTITUTION/BUSINESS INCUBATOR has been incorporate for nucleating and promoting business enterprises for the benefit of the society and ha been entrusted the task of running various programs and the management of variou supporting facilities/resources for the benefit of entrepreneurs/entrepreneurial ventures b the J.N.T.U.H. College of Engineering, J.N.T.U.H., Kukatpally, Hyderabad(hereinafte referred to as HOST INSTITUTION)

WHEREAS, the BUSINESS INCUBATOR has been approved by the Government for participation and funding support under the scheme for providing support for Entrepreneurial and Management Development of SMEs through Incubators (hereinafter referred to as the SCHEME)

WHEREAS, the INCUBATEE has applied for support for business advancement and its Commercialization (hereinafter referred to as the PROJECT) from the BUSINESS INCUBATOR under the SCHEME,

WHEREAS the BUSINESS INCUBATOR has reviewed the PROJECT proposal through its Managing Committee and approved the PROJECT for incubation under the SCHEME on such terms and conditions mentioned hereinafter

It is now agreed by and between the parties as follows:

2.0 RESPONSIBILITIES OF THE BUSINESS INCUBATOR

2.1 The BUSINESS INCUBATOR shall extend support to the INCUBATEE for the execution of the PROJECT to the extent agreed in the final PROJECT budget and financing sheet (Appendix - I to this agreement) approved by the Managing Committee.

2.2 The support extended to the INCUBATEE could include support towards one or more of the following - the technology fee, guidance fee for mentors/handholding persons (for technology, intellectual property planning and business planning), hiring or leasing cost of machinery/ equipment/instruments or related services, office facilities (like telephone, fax, computers etc), infrastructural facilities (accommodation charges, utilities, etc) and other project costs depending upon the needs of the INCUBATEE and those approved by the Managing Committee.

3.0 RESPONSIBILITIES OF THE INCUBATEE

3.1 The INCUBATEE shall maintain documented evidence (invoices and receipts) of all costs incurred in running the PROJECT and submit to the BUSINESS INCUBATOR on a timely basis.

3.2 The INCUBATEE shall contribute a minimum of 15% (for micro enterprises) or 25% (for small enterprises) of the total project cost. In the event of failure of the INCUBATEE meeting this requirement, the BUSINESS INCUBATOR shall be free to withdraw its support.

4.0 GENERAL

4.1 Both parties can terminate this agreement at any point by giving one month advanced notice of their termination to the other party after a period of 365 days from the date of this agreement.

4.2 Termination of this agreement subject to settlement of claims against each other will mean that both parties will be absolved of their responsibilities from the date of termination.

4.3 The parties shall endeavor to resolve any dispute relating to the rights, duties, terms and conditions contained in this agreement by mutual negotiations in good faith. However the dispute remains unresolved, the arbitration of such disputes would be handled by th Managing Committee. The verdict of the Committee would be final and binding.

4.4 Neither party shall be held responsible for non-fulfillment of their respective obligation under this agreement due to the exigency of one or more of the force majeure even such as but not limited to acts of god, war, flood, earthquakes, strike, lockouts, epidemic riots, civil commotion, etc., provided on the occurrence and cessation of any such event the party affected thereby shall give a notice in writing to the other party within one mon of such occurrence or cessation. If the force majeure conditions continue beyond s months, the parties shall then mutually decide about the future course of action.

In witness thereof the parties have caused their authorized representatives to sign th agreement on the date mentioned hereinabove.

Signed on this ___28th___ day of ___February___ (Month) _2014_ .

For & on behalf of the Host Institution/BUSINESS INCUBATOR

Name: Dr. A. Vinaya Babu
Designation: Principal I/c & Chairman, MSMETBI
Postal Address: JNTUHCEH, Kukatpally
Phone number: 040-2305 7787
Email address. principal@jntuceh.ac.in
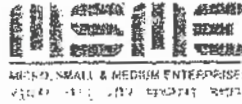
For & on behalf of the INCUBATEE

Name: Dr. Suresh Akella
Designation:
Postal Address: Villa # 118, Indu Aranya villas, Haritha, Bandla Guda, Nagole, Hyderabad - 500065
Phone Number: 09849628282
Email address: s4akella@gmail.com

विकास आयुक्त का कार्यालय
(सूक्ष्म, लघु और मध्यम उद्यम)
सूक्ष्म लघु और मध्यम उद्यम मंत्रालय
(भारत सरकार)
निर्माण भवन, सातवीं मंजिल, मौलाना आजाद रोड
नई दिल्ली- 110 109

OFFICE OF THE DEVELOPMENT COMMISSIONER
MICRO SMALL & MEDIUM ENTERPRISES
MINISTRY OF MICRO, SMALL & MEDIUM ENTERPRISES
DEVELOPMENT OF INDIA
Nirman Bhawan 7th floor, Maulana Azad Road
New Delhi 110 108

Ph.EPABX - 23063609, 23062602, 23063803 FAX: (91-11) 23062315, 23061726

No. 6(19)/NMCP/Inc./11th Meeting/ 2013-14   Dated 30.1 2014

To

The Principal,
JNTUH College of Engineering Hyderabad
Kulkapally,
Hyderabad- 500085 (AP)

Subject: Approval of Ideas / proposals submitted by your Institute under the scheme "Support for Entrepreneurial and Managerial Development of SMEs through Incubators" for GoI assistance – reg.

Sir,

I am directed to inform you that 4 proposals were received from your Institute under the above scheme. The said proposals were considered by the 11th Selection Committee Meeting which was held on 16th January, 2014. The Committee approved 1 proposals submitted by your Institute. The details of the proposals are as under:

Sl. No.	Name, qualification and details of Incubatee/Unit, address and Idea of innovation	Project Cost (Rs. in lakhs)	Amount sanctioned (Rs. in lakhs)
	JNTUH, Hyderabad Total sanction: Rs. 4.25lakhs + Rs. 0.378lakh (Infrastructure & Training for two idea) i.e. 10 % of Rs. 3.78 lakhs. Total sanction Rs. 4.628lakhs		
1.	Dr. Sureh Akella, 56 years PhD (Mech. Engg), Sreyas Institute of Engg. & Tech Idea- Power Saver: Roll Bond Evaporator for Air conditioner	6.26	4.25

Name of the Proposal: Power Saver: Roll Bond Evaporator for Air Conditioner

Applicant Name: Dr. Suresh Akella

Mobile: 09849628282

Expenditure Details (Rs. In Lakhs).

Sl.No	Expenditure Details	Own Contribution	MSME Support	Total Project Cost
1	Technology Fee	Patent applied		Total Technology fee cost
2	Telephone, fax, computer internet facility etc., (consumables, refrigerants, power)	1.0		1.0
3	Machinery hiring or leasing from out side	To be bought & to be made to design		Total Machinery hiring or easing from out side
4	Guidance fee per annum. Customer Interaction & Customer end testing		0.75	0.75
5	Rent & Office space/ electricity charges etc., (own: Build test room as per BIS IS1391, MSME: Test equipment)	1.01	1.0	2.0
6	5 split ACs Branded like Godrej.		1.5	1.5
7	Designed Roll Bond evaporators, 20 No's.		1.0	1.0
	Total	2.01	4.25	6.26

Asuresh
Signature of the Incubate

Signature of the Head of the Institution/Incubator Manager/

Member Secretary of Incubator

ACCREDITED BY NAAC

A-GRADE

PROCEEDING OF THE
JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD
(Established by Govt. Act No. 30 of 2008)
Kukatpally, Hyderabad – 500 085, Telangana (India)
PRESENT Dr. N. YADAIAH REGISTRAR

Procs No.JNTUH/TEQIP-III/CRS/2019/ECE/12

Date:22/07/2019

Subject: Award of the project titled **"Radiation Hardness Assurance Analysis of Radhard Architecture at Nano Scale using Visual TCAD Tool"** under Collaborative Research Scheme, TEQIP-III, JNTUH.

Read: Note order of the Vice-Chancellor dated 22.07.2019

***

ORDERS:

The project titled **"Radiation Hardness Assurance Analysis of Radhard Architecture at Nano Scale using Visual TCAD Tool"** is awarded with sanctioned amount Rs. **2,82,000/-** (Rupees Two Lakh Eighty Two Thousand only) under Collaborative Research Scheme, TEQIP-III, JNTUH to the following investigators.

1. Principal Investigator **Dr. Ameet Chavan**
   Department Name   Electronics and Communication Engineering
   Institute Name   **Sreenidhi Institute of Science and Technology**

2. Co-Principal Investigator-1 **Mr. Chinnam SV Maruthi Rao**
   Department Name   Electronics and Communication Engineering
   Institute Name   Sreyas Institute of Engineering Technology

With the following terms and conditions to the Investigators:

1. The institute where Principal Investigator is working becomes the lead Institute.
2. An Initial grant of Rs.1,00,000/- will be released to the account of the principal of lead institute.
3. In case if both PI and Co-PI-1 are from affiliating institutions, a joint account should be operated by PI, Co-PI-1 and Principal of lead institute.
4. If Co-PI-1 is from the Constituent colleges of JNTUH (JNTUHCEH, JNTUHCEJ, JNTUHCEM, JNTUHCES), PI and Co-PI will operate a Joint account and fund will be transferred for lead institute Principal account.
5. In case, PI or Co-PI leave the institute for any reason or withdraw from the project (proper justification should be communicated to the University), he/she shall be treated as withdrawn from the project.
6. PI's and Co-PI's should fill the Forms A to F and submit to TEQIP-III JNTUH whenever required.
7. PI's and Co-PI's should submit Form A within 3 days after receiving the sanction letter.
8. PI's and Co-PI's should be present at the time of first Progress evaluation after 4 months and all other subsequent Progress Evaluations (once in 4 months) conducted at TEQIP-III JNTUH.
9. The Second Installment of Rs.1,00,000 of Research grant will be released on satisfactory performance in first Progress Evaluation and submission of Form B and Form D duly filled and signed.
10. The 3rd and final installment will be released upon submission of Form C and D and satisfactory Performance in the next Progress Evaluation.

A.Suresh

PRINCIPAL
SREYAS INSTITUTE OF ENGG.&TECH
9-39, Sy.No: 107, Tattiannaram (V)
GSI, Bandlaguda, Nagole, Hyd-68

11. The project should results in at least one publication in the relevant Journal national/international (Non Payment Journal).
12. PI's and Co-PI's will be informed if there are any directions from NPIU or changes made by TEQIP-III JNTUH relevant to Collaborative Research Scheme time to time and are to be followed in due course till the completion of TEQIP-III Project
13. All non-consumables procured for the research project will automatically become the property of the lead institution after completion of the project.
14. Any deviation in the expenditure as defined in the project proposal is not accepted. In such case prior permission is necessary from the university. After obtaining necessary permission, funds should be utilized as per the revised guidelines. No deviation is accepted.
15. Any interest incurred should be deposited back to the university JNTUH, TEQIP-III Account.
16. Unspent amount as per the proposal/ Guidelines of the TEQIP within the stipulated time should be deposited back to the university TEQIP account. (Along with Interest Incurred).
17. Any discrepancy with Co Investigator and principals while implementing the project to be brought to the notice of University authorities.
18. For any discrepancies and other relevant matters, decision of the University is final.
19. Upon the completion of the Project, PI should submit final report Form E, Final Financial Statement Form F, and utilization certificate Form G along with true copy of audit report of the Project. In case if principal fails to do so, it will be recovered from institute.

With the following terms conditions to the Principals:

1. The institute where Principal Investigator is working becomes the lead Institute.
2. The grant from TEQIP-III will be transferred to Principals account of lead institution three installments.
3. A separate account for the project may be created.
4. Principal is responsible for transfer of funds to the project account within one week after the release of funds from university. In case if principal fails to do so; it will be recovered from institute.
5. Principals should permit to use existing facilities for project Implementation if requested.
6. In case if both PI and Co-PI-1 are from affiliated institute, a joint account is to be operated by PI, Co –PI-1 and Principal of lead institution
7. In case of collaborative research project carried under twinning, PI and Principal of lead institute will jointly operate the account
8. In case either PI or Co-PI-1 withdraws from the project, Principals of the respective institution shall find the replacement and inform the same to the University for Approval.
9. A declaration form duly signed by Principal (Form H) abiding the rules listed above shall be submitted along with account details within 3 days after receiving the sanction letter for the transfer of research grant.
10. Any discrepancy with PI and Co- PI, while implementing the project, to be communicated with details, to the University.
11. After the completion of every project, Principals of lead institute should ensure that all non consumables procured for projects become the property of institution and to be labeled TEQIP-III/ (Number).
12. Principal of the lead institute should submit the list of all non consumables procured for all Projects at the end of collaborative research scheme through duly filled in Form I.
13. Principals will be informed if any directions from NPIU or changes in guidelines made by TEQIP-III JNTUH relevant to the Collaborative Research Scheme from time to time. Those guidelines should be followed in due course of time, till the completion of TEQIP-III Project
14. For any discrepancies and other relevant matters, decision of the University is final.

Under the circumstances as stated above, the Vice-Chancellor is pleased to accord permission to award the project under Collaborative Research Scheme TEQIP-III, JNTUH.

The expenditure shall be met from TEQIP-III funds.

REGISTRAR

To
The Concerned Investigators
The Concerned Principals,
Copy to VC/Rector/Registrar.
Copy to Office of the TEQIP-III

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD

KUKATPALLY-500085

SUBMISSION OF PROPOSAL FOR COLLABORATIVE RESEARCH PROJECT

UNDER TEQIP-III

1. Faculty of Engineering/Technology: Electronics and Communication Engineering
2. Area of Research Proposal: Reliable VLSI Design , Device Modelling , Radhard
3. Duration: 18 months
4. Principal Investigator
   a. Name: Dr. Ameet Chavan
   b. Gender(Male/Female): Male
   c. Date of Birth: 10th August 1976
   d. Category: B C (B)
   e. Qualification: B.E (Electronics), M.S (VLSI), Ph.D
   f. Designation: Professor (ECE)
   g. Address: Office: Sreenidhi Institute of Science and Technology

   Yamnampet, Ghatkesar, Hyderabad - 501 301, Telangana

   Residence: Flat - 518, Siddam Settys Hima Sai Heights,
   Jawarhar nagar, Gandhinagar, Hyderabad - 500020, Telangana

   Email & Phone: ameetchavan@sreenidhi.edu.in, Mb - 9390638524

5. Co - Investigator
   a. Name: **Chinnam S V Maruthi Rao**
   b. Gender(Male/Female): Male
   c. Date of Birth: 12th April 1980
   d. Category: B C(B)
   e. Qualification: B.Tech (ECE), M.S(Univ. Essex U.K)
   f. Designation: Associate PRof.
   g. Address: Office: Sreyas Institute of Engineering and Technology,
   ECE Department, Nagole, Hyderabad.

   Residence: Flat No.304, Vinoothna Orchid, Padmavathi Colony, Kushaiguda,
   Hyderabad - 65

   E-Mail: maruthichinnam@gmail.com
   Phone: 9177656868

6. **Name of the Institution where the project will be undertaken:**
   Sreenidhi Institute of Science and Technology (SNIST)

   a. Department: Electronics and Communication Engineering
   b. College: SNIST
   c. Affiliating University: JNTUH
   d. Whether the institute is located in rural/backward area: Yes

7. **Teaching and Research Experience of Principal Investigator**
   a. Teaching Experience: UG ___4___ Years
                                               PG ___3___ Years

   b. Research Experience: 10 years
   c. Publications:
      i. Papers Published: 24
         Accepted: 24
         Communicated: 18

      ii. Books Published:
         Accepted: Two
         Communicated: One

(Please enclose the list of papers and books published and/or accepted during last five years)

8. **Teaching and Research Experience of Co - Investigator**
   a. Teaching Experience: UG ___8___ Years
                                               PG ___4___ Years
   b. Research Experience: 5 yrs
   c. Publications:
      i. Papers Published: 8
         Accepted: 8
         Communicated: 8
      ii. Books Published: Nil
         Accepted:
         Communicated:

(Please enclose the list of papers and books published and/or accepted during last five years)

9. One Page profile of Principal Investigator:

Ameet Chavan (Senior IEEE Member), received his Bachelor of Engineering degree in Electronics from Pune University, India in 1998. He received M.S. degree (ECE – VLSI Thesis) from the University of Texas at El Paso (UTEP) in 2003 and Ph.D. (ECE – Ultra Low Power Dissertation) 2010 from UTEP, USA. Dr. Chavan worked as faculty for the Department of Electrical and Computer Engineering, UTEP, USA. He has worked following industry Intel Corporation Inc. (Hillsboro USA), Advanced Micro Devices (AMD) Inc. (Austin, USA), Echostar Technologies Ltd. (Denver, USA) and Ethicon Endo (Cincinnati, USA). Dr. Chavan has a total of 16+ years of combined experience in industry and academia. Dr. Chavan has worked on a chip design research project sponsored by the Defense Advanced Research Projects Agency (DARPA), USA which was fabricated at MIT Lincoln Labs, USA. Dr. Chavan has presented and published his research at various international conference meetings of the Institute of Electrical and Electronics Engineers (IEEE) and NASA Symposium on VLSI Design. To further support his research, Dr. Chavan received research awards from NASA, DARPA, SPAWAR and The University of Texas at El Paso Graduate School. Additionally, he was awarded a Texas Instruments Foundation Scholarship, a Texas Public Education Scholarship, and a National Science Foundation (NSF) Distributed Computing Laboratory Scholarship. Dr. Chavan worked as a postdoctoral faculty researcher at the ASICs research lab UTEP. At present, Dr. Chavan is working as a Professor (ECE) and Dean (R&D) at the Sreenidhi Institute of Science and Technology, Hyderabad, India.

Research– Internet of Things, Ultra Low Power Digital System Design, Reconfigurable Computing, and Radiation Hardened System Design.

Research Grants & Industry Consultancy

➤ Texas Instrument Scholarship, USA , Rs. 1,70,000 ($2,500 @Rs.68), M.S Program Scholarship (2001-2003)

➤ NASA – Jet Propulsion Laboratory, USA , Rs. 2,72,000 ($4,000 @Rs.68, Project - Vowel Recognition and Reconfigurable DataPath Processor Project (2003)

➤ The National Science Foundation(NSF), USA Rs. 3,06,000 ($4,500 @Rs.68), Distributed Computing Lab Project (2004 & 2005)

➤ University Research Institute , TX, USA , Rs. 3,06,500 ($4,500 @Rs.68), May 2010 – Seed amount for Summer Post Doctoral research initiation

➤ DARPA – Defense Advanced Research Project Agency, USA , Amount - Undisclosed, Grant approved for chip fabrication at Massachusetts Institute of Technology, Lincoln Labs, Completed

➤ SPAWAR – Space and Naval Warfare Systems Command, USA , Rs. 6,46,500 ($9,500 @Rs.68), $8000 for Heavy Ion radiation testing at Texas A&M Cyclotron facility, $1500 for Test preparation, TA, Misc. Completed

➤ SPAWAR – Space and Naval Warfare Systems Command, USA , Amount - Undisclosed, Chip fabrication at MOSIS, USA, Completed

➤ Nucleonix Systems, Hyderabad, Rs. 5,00,000, Consultancy project sanctioned for Upgrading Radiation Detector Instruments – IoT Augmentation, 2016-2018 Completed

➤ CAS , DRDO - Hyderabad, Rs. 9,74,000, Intelligent Robotic Arm for Connectors and Bolts Fastening, 2017-2019 Completed

➤ RCI, DRDO – Hyderabad , Rs. 9,86,000, Developing RadHard Electronics – Analysis and Characterization, 2017- 2019 Completed

10. One Page profile of Co-Investigator:

Overview

- Experience of 12 years 4 months in the field of Teaching after Master's Degree and Ratified by JNTUH as an Assistant Professor in June 2011
- Qualified for Lectureship through UGC – NET in July – 2018
- IEEE Member (M 94932810) and Student Branch Coordinator of S. I. E. T.
- SPOC for NPTEL Local Chapter of S. I. E. T.
- Coordinator for IIRS Local Chapter
- Proficiency in working with Cadence, real time operating systems VXWORKS with hands on experience in microcontroller programming.

Dec 2011 – Till Date– Sreyas Institute of Engineering and Technology
Designation: Associate Professor
Sept 2006 – Dec 2011– Bharat Institute of Engineering and Technology
Designation: Assistant Professor
Oct 2002 – June2003- University of Essex
Designation: Research Assistant / Teaching Assistant

Educational Qualifications

2002-2004: **Master of Science**(Embedded Systems & Robotics)-University of Essex, UK – CGPA – 2.6/4.0
1997-2001: **Bachelor of Technology**(ECE) under JNTU, Hyderabad – **68%**
1995-1997: **Intermediate**(MPC)-Sree Venkateswara Junior College, Gudivada– **86%**
1995 S.S.C–Montessori English Medium High School, Gudivada– **83%**

Professional Certifications / Industrial Training:

2001-2002:**Diploma in VLSI**, ECIL – ECIT, Hyderabad

2005-2006:**Advanced P.G.Diploma in Real Time Embedded Systems** from Cranes Software International, Bangalore
2002-2003: Junior Research Trainee, Apollo Microsystems, Hyderabad
2006:Certification Course in **Networking** – Zoom Technologies, Hyderabad
2018: Online Certification Course in **CISCO Cyber Security**
2018: Online Certification Course in **Advanced Image Analysis**, IIRS, Dehradun

Technical Skills
Modeling Languages (HDL / Hw/Sw Co-Design): **Verilog, System-C**
Programming Languages: **C, C++, Assembly** and**Pascal**
Operating Systems: **Windows, Linux,** and **Unix**
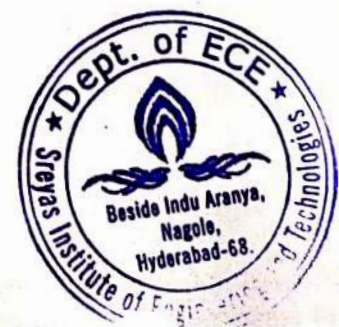Development Tools: **Microsoft Visual Studio, Tornado**
Simulators: **Saphira, Veriwell, Keil Micro Vision**
Micro Controllers / Processors: **8051, TN87C196KC, ARM7TDMI**
Other EDA Tools: **Cadence and Synopsis for synthesis, Xilinx**
RTOS: **Vx-Works**

I. Project Title:

R... ...n Hardness Assurance Analysis of Radhard Architecture at NanoScale using Visual
T... ...ool

II. Introduction:

...ce electronics Radiation Hardness Assurance (RHA) ensures the functionality of the Space ...s under the effects of radiation. The key aspect to RHA is selection of components and design of ...ns that have higher levels of tolerance to radiation effects for their application to specific radiation ...nt. The typical tolerance levels for radiation effects are shown below in the table. Therefore a ...analysis of the device structure and subsystem is mandatory for critical application like space ...s.

...ged particles in space radiation environment consist primarily of high-energy electrons, protons, ...ticles and heavy ions (cosmic rays). The radiation effects of these charged particles are dominated ...ion in electronic devices, and the resulting total ionizing dose (TID), single-event effects (SEE), and ...low Dose Rate Sensitivity (ELDRS) have to evaluated and individual circuits analyzed.

...TCAD will be used to generate 2D and 3D models of the device and circuit for radiation simulation. ...mulation of the generated structure is also available in this tool. Additionally the tool supports various ...such as Drift-diffusion model; Lattice heating model; Energy balance model; DC, AC and transient ...modes; Circuit/Device mixed simulation; A wide range of mobility models; Impact ionization model; ...and tunneling model; Carrier trapping at defects; Hall effect; 3D Ray-tracing optics; 2D FEM Optics; ...model; device model generation from GDSII mask layout; data format conversion from other major ...ls. Shown below is the 3D model of a 6T SRAM cell extracted from GDSII.

g and Mesh	Potential distribution at a certain moment
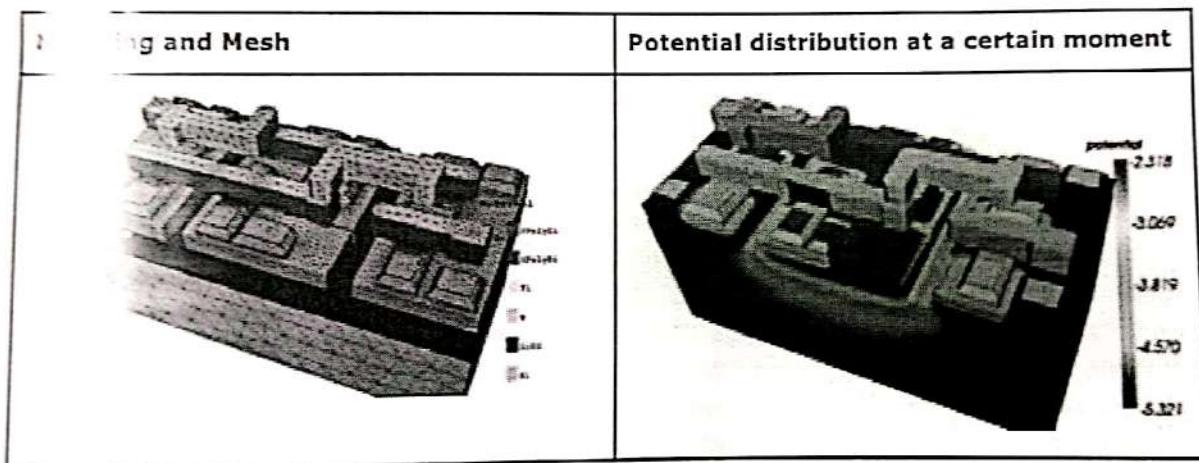
...odel generated for a given circuit is utilized to produce high energy particle trajectories, carrier ...n and then analyze SEE effects. CRad tool will be used to predict the behavior of the design with ...o Total Displacement Dose (TDD) and Total Ionizing Dose (TID) for different orbits in space ...selected Radiation models (Galaxy cosmic rays, Solar Cosmic rays, Trapped radiation by ...etic field). The Crad tool provides SEE rate prediction for heavy ions (using IRPP model and protons ...ndel, PROFIT and JBarak2006 models)

...nizing Dose (TID) in electronics is a cumulative, long term degradation mechanism due to ionizing ...—mainly primary protons and electrons and secondary particles arising from interactions between ...nary particles and spacecraft materials. It causes threshold shifts, leakage current and timing skews. ...t first appears as parametric degradation of the device and ultimately results in functional failure. ...ols can be utilized to understand the radiation to dose distribution – energetic particle transport by

M⟨...⟩ ⟨C⟩arlo particle Simulation. The tool further assists in describing the dose distribution to trapped charge d⟨...⟩n inside insulators and semiconductors interfaces. As this emulation process is complicated and p⟨...⟩ by traditional E-CAD tools. In the next step the TCAD tool estimates the problem of charge carriers d⟨...⟩r certain electric field and evaluates the relation of trapped charge distribution to leakage current in⟨...⟩ Parasitic transistors formed due to TID effect will be simulated to different dose rates.


Parasitic Channel due to TID

0.13um CMOS nMOSFET
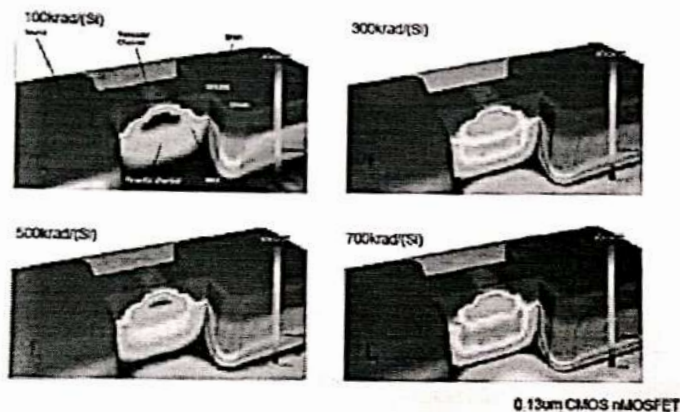
Si⟨...⟩ ⟨...⟩ent Effects (SEE) are caused by a high energy single ion (heavy ion or energetic proton) passing th⟨...⟩ device. SEE include single event upsets (SEU), single event latchup (SEL), single event burnout (S⟨E⟩ ⟨...⟩d single event gate rupture (SEGR). While SEU are nondestructive and do not cause permanent dam⟨...⟩ ⟨...⟩o the device, the other single event effects can be destructive. SEU occur due to either the deposition or d⟨...⟩ion of charge by a single ion at a circuit node, causing a change of state in the memory cell (bit upse⟨...⟩ ⟨...⟩n very sensitive devices, a single ion hit can cause multiple bit upsets in adjacent memory cells. How⟨...⟩ these SEU cause no permanent damage, and sometimes power recycling is all that is needed

III.O⟨...⟩ ⟨...⟩es:

⟨1⟩. Application and utilization of various built-in tools of Visual TCAD for RHA analysis that include Gds2Mesh tool, GENIUS tool, CRad tool and Visual Particle Strike tool.

⟨2⟩. Analyze Radhard and Traditional standard cells library for radiation effects, based on SCL 180nm, ⟨b⟩y performing Monte Carlo Simulation of Ionizing Radiation through Geant4 and GENIUS tool for ⟨t⟩arget specification as shown below –
   - TID (with radiation tolerance > 300kRad(Si))
   - SEL immune with threshold LET > 90 MEV-cm²/mg,
   - SEU rate < 10^{-9}#bit/day in GEO orbit environment
   - Other specialized cells (TMR, DR and Clock Buffers) will be evaluated for reduced SEU sensitivity

⟨3⟩. Compare and analyze the RHA report of radhard and traditional standard cell library

⟨4⟩. Based on the results of the above analysis the standard cells circuit design and physical layout ⟨st⟩ructure could undergo redesign to improve the tolerance to radiation effects
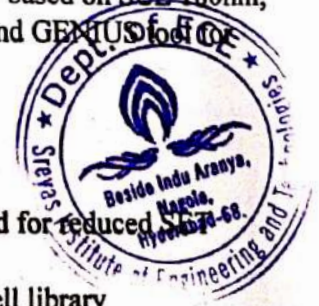
A suresh
PRINCIPAL
SREYAS INSTITUTE OF ENGG.&TECH
9-39, Sy.No: 107, Tattiannaram (V)
GSI, Bandlaguda, Nagole, Hyd-6⟨...⟩

Scanned by CamScanner

5. Finally, the improvised standard cells will be form the building blocks of a Radhard Test Architecture that will be further analyzed for Radiation Hardness Assurance for space application

IV. Methodology:

1. Develop understanding of the various tools offered by Visual TCAD for RHA analysis of Radhard and Traditional Standard Cells Library
2. Generating TID and SEE reports of the Standard Cell Library. Modifying the design cells to mitigate the effects of radiation
3. Utilize the improvised standard cells to build Radiation hardened Soc Test Architecture suitable for Space application

V. Quarterly/Year-wise plan of work and targets to be achieved

Milestone 1 (T0)

Online training on generation of advance level reports for Radiation Hardness Assurance using Visual TCAD tool

Milestone 2- (T0 + 3 months)

a. Integration of Visual TCAD tool with Cadence based design
b. Generating 2D and 3D grid structure from the GDSII of all Radhard and Traditional standard cells

Milestone 3- (T0 + 6 month)

a. Perform TID and SEE analysis to identify vulnerable nodes in the design for both, Radhard and Traditional standard cells
b. Modify the design of Radhard cells based on the analysis such that the effects of radiation is further minimized and design tolerance levels are increased
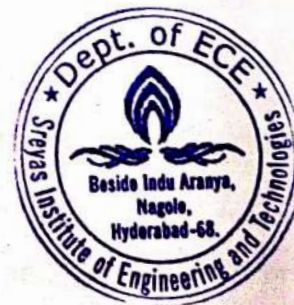
Milestone 4 -(T0 + 9 month)

Perform TID and SEE analysis of the Test Architecture design based on radhard

Milestone 5 -(T0 + 12 month)

Modify the Test Architecture by rebuilding the design with upgraded Radhard cells

Final -

a. Preparation of RHA report for Radhard cells for specific Space application criteria
b. Final step technology transfer and organizing FDP.

Financial Assistance required

Sl.	Item	Details	Budget (Rs.)
a	Manpower (<15%)	M.Tech Student Stipend Rs. 3,500/- per month	45,000
b	Conference Registration Fee (<5%)	The results obtained from the analysis will be published in reputed journals	12,000
c	Travel (<10%)	Travel for training programs, Conferences and Seminars	30,000
d	Collaborative meeting/ Workshops with Proposal title (<15%)	Training programs - 2D and 3D modeling of device and circuits with radiation simulation analysis.	40,000
e	Field Visit (<10%)	Trips to NIT Warangal where advance level of work presently carried on	25,000
f	Contingency (<30%)	Procurement of Items required effective sharing of the tool and extracting higher levels of performance and visual effect. • Books • Patent application fees • Visit to SCL Chandigarh for advance training on field training	85,000
g	Others (<15%)	• Higher CPU (Intel xeon 4110) cores for performance with RAM • Graphics cards	45,000
	Grand Total		2,82,000

12. Whether the faculty has received support for the research project from the UGC under Major, Minor or from any other agency (Yes/No)? **No**

Only internal funding from the institute (SNIST) to procure and install the Visual TCAD Tool - this process is completed as of May 2019.

13. Research Credentials

Dr. Ameet Chavan has completed four major projects with reputed agencies such as DARPA, SPAWAR, MITLL at USA and RCI-DRDO Hyd, INDIA, related to the area of proposed project work.

Mr. Chinnam S V Maruthi Rao has years of working experience with the relevant tools such as Cadence ECAD and subject expertise in architecture design analysis.

14. Need of present Research

The global radiation hardened electronics market was estimated to be approximately $1.45 billion in 2018. The radiation hardened electronics industry is currently at the cusp of a major revolution. Radiation hardened electronics are employed in satellite switching regulators, system power supply, and microprocessors in military and space applications. Therefore, they require extensive testing and development for their production. The radiation hardened electronics market has witnessed a high growth rate owing to the extensive demand for radiation hardened components for their applications in space, medical, and nuclear power plants. To provide complete solution ranging from theoretical investigation to risk assessment and to propose radiation-tolerance design.

15. Societal Relevance

The research proposal has many tangible and intangible benefits to society such as indigenization of reliable models and radhard cell design.

16. Industrial Relevance

Many commercial Space electronics embedded IC design are dependent on Radhard VLSI standard cell libraries, the IPs of which are not indegenous. Therefore, with the high demand in this sector the proposed research serves to make big contribution and paves path to undertake high level projects with OEMs, DRDO and SCL. Innovations, such as the development of cost-effective and reliable components and services, are anticipated to enable the radiation hardened electronics market to reach a wider segment of consumers in the industry

17. Expected Outcomes

- Radiation Hardness Assurance analysis report for designed Radhard and Traditional Standard Cells Library
- Improvised designs of standard cells that can be utilized to build robust SoC for Space application

18. Development of Innovative Product/Process

The outcome of the research will be innovative design of device and memory cell structure which will be patented design- IP.

ATS

One Stop IT Solution

Apex Technology Systems, Inc.

Apex Technology Systems, Inc.
50 Cragwood Road, Suite 214
Roads,
South Plainfield, NJ 07080
Ph: 908-818-8147/732-701-7052
Email: paralegal@apex-tech.com
Fax: 908-444-8536/206-203-3403

Apex Technology Systems, Inc
Sheshadri Heights, Nagole 'X'

Hyderabad 500027, A.P, India
Ph: 040-65864630
Fax: 206-424-4745
URL: www.apex-tech.com
Version: 1.1

From:

Jiten Patel,

Managing Director,

Apex Technology Systems, Inc.

50 Cragwood Road, Suite 214

South Plainfield, NJ 07080

March 17ᵗʰ 2016

To:

K.Rohit Kumar,

Sreyas Institute of Engineering and Technology,

Bandlaguda, Nagole-68.

Dear Mr.K.Rohit Kumar,

Re: Project Acceptance on Multi Resolution Tool (Portlet)

On behalf of Apex Technology Systems Inc, I am pleased to inform you that the management has studied through your proposed project of Multi Resolution tool

We feel that your proposal is very workable with the proposed cost and applications. Hence, Apex Technology Systems Inc is accepting your proposed project. We are agreeable to the terms and conditions stated in your proposal with no amendments.

The project commenced in March 2016 and to complete, as proposed in your project proposal, in April 2017. Payment will be progressive in accordance with the project implementation, as per the stated and agreed on terms and conditions.

Thank you for engaging Apex Technology Systems Inc.

A.Suresh
PRINCIPAL
SREYAS INSTITUTE OF ENGG.&TECH.
9-39, Sy.No: 107, Tattiannaram (V)
GSI, Bandlaguda, Nagole, Hyd-61

Apex Technology Systems, Inc

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URL: www.apex-tech.com
Version: 1.1

Memorandum of Understanding (MOU)

MEMORANDUM OF UNDERSTANDING (MOU)
Between
SREYAS INSTITUTE OF ENGINEERING
ANDTECHNOLOGY
&
APEX TECHNOLOGY SYSTEMS INC

This document constitutes an agreement between ***Multi resolution Tool*** project promoting economic development in *Apex_technology system Inc*, a private, business company, with k.Rohit kumar Assistant professor at SIET ___BANDLAGUDA , NAGOLE___ .

1. Objective

The objective of this MOU is to express the willingness of both parties to engage in an effort to promote the competitiveness of APEX TECHNOLOGY SYSTEM INC COMPANY as well as it's activities to develop and expand relationships with producers of herbs and spices that they source from (these producers are also referred to an micro, small and medium scale enterprises or "MSMEs").

Specific activities under this MOU will be identified through consultation between the two parties.

K.ROHIT Kumar agrees to provide technical assistance to assist APEX TECHNOLOGY SYSTEM INC Company to carry out activities that will improve or expand the support they provide to herby and spice producers they source from and improve its competitiveness. As a preliminary activity, AFE will conduct a strategic planning exercise with MULTI RESOLUTION TOOL to review their outgrowing operations. The results of this exercise will assist with the implementation of its operations and will help identify areas where it can provide capacity building support. After finalizing the strategic planning session, technical and financial support agreements for specific activities will be developed through a participatory process. These agreements will be detailed in subsequent Addendums to this MOU.

APEX TECHNOLOGY SYTEMS INC Company agrees to work with and coordinate with K.ROHIT Kumar in the development of their initiatives to improve and expand support to the MULTI RESOLUTION TOOL they transact with. They also agree to allow K.Rohit Kumar to carry out monitoring and evaluation activities to assess the impact of these activities on participating producers.
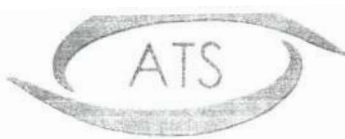
A.Suresh
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GSI, Bandlaguda, Nagole, Hyd-6:

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Version: 1.1

2. General Terms of MOU

2.1 Duration of MOU: This MOU shall be operational upon signing and will have an initial duration of one year. All activities conducted before this date within the vision of the joint collaboration will be deemed to fall under this MOU.

2.2 Coordination: In order to carry out and fulfill the aims of this agreement, each party will appoint an appropriate person(s) to represent its organization and to coordinate the implementation of activities. APEX TECHNOLOGY INC Company and K.RohitKumar staff will meet regularly (preferably with two days' notice) to discuss progress and plan activities.

2.3 Technical and Financial Support: Addendums to this MOU will be developed for specific technical and financial support activities. These Addendums will provide a detailed description of the role, responsibility, and financial contribution of each party. Work plans and reporting requirements will be clearly outlined in the Addendums.

2.4 Confidentiality: Each party agrees that it shall not, at any time, after executing the activities of this MOU, disclose any information in relation to these activities or the affairs of business or method of carrying on the business of the other without consent of both parties.

2.5 Termination of MOU: The partnership covered by this MOU shall terminate upon completion of the agreed upon period. The agreement may also be terminated with a written one month notice from either side. In the event of non-compliance or breach by one of the parties of the obligations binding upon it, the other party may terminate the agreement with immediate effect.

2.6 Insurance: It is the responsibility of APEX TECHNOLOGY SYSTEM INC Company to insure themselves against any casualties.

K.ROHIT Kumar will not bear any responsibility for costs of sickness, accidents or any other liability.

A.Suresh
PRINCIPAL
SREYAS INSTITUTE OF ENGG.&TECH.
9-39, Sy.No: 107, Tattiannaram (V)
GSI, Bandlaguda, Nagole, Hyd-6

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Apex Technology Systems. Inc

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3.1 APEX TECHNOLOGY SYSTEMS INC Company is reminded that U.S. Executive Orders and U.S law prohibits transactions with, and the provision of resources and support to, individuals and organizations associated with terrorism. It is the legal responsibility of APEX TECHNOLOGY SYSTEMS INC Company to ensure compliance with these Executive Orders and Laws.

3.2 This agreement will be administered in accordance with prevailing standard provisions and certifications for K.ROHIT Kumar including those contained in ADS Chapter 303, "Grants and Cooperative Agreements to non- governmental organizations" and within the terms of the USAID standard provisions applicable to non-US, non-governmental recipients. Information on these provisions can be accessed through the USAID external website at www.info.usaid.gov "Business & Procurement" section.

The terms and provisions in this MOU also apply to any subsequent Addendum to this agreement.

IN WITNESS WHEREOF, the parties hereto have executed this MOU on the 18th day of March 2016 [Date].

Name
K.Rohit Kumar
ASSISTANT
PROFESSOR ,SIET
Signature and date:

Name
JITEN PATEL
Managing Director
APEXTECHNOLGY
SYSTEMS INC

ATS
One Stop IT Solution
Company
Signature and date:

A.Suresh
PRINCIPAL
SREYAS INSTITUTE OF ENGG.&TECH
9-39, Sy.No: 107, Tattiannaram (V)
GSI, Bandlaguda, Nagole, Hyd-6

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

LETTER FOR PROPOSAL

Date:- 06-03-2016

To,
 Managing Director,
Apex Technology System Inc.
50 Crag wood Road, suite 214
South plain field, NJ 07080
Email:paralegal@apex-tech.com

Sub: Request to grant me permission to carry out project work
Respected Sir / Madam,

       I , K.Rohit Kumar (Assistant Professor), Department of CSE ,SREYAS INSTITUTE OF ENGINEERING AND TECHNOLOGY BANDLAGUDA,NAGOLE, would request you to grant me permission to carry out project work in Php Domain on the topic of Multi Resolution Tool Project duration is for 1 year i.e. 1st April 2016 to 30th April 2017.

       Kindly do let me know that may take place in Multi Resolution Tool and what are the other requirements I need to comply with. Forwarding my details for your immediate response and your co-operation &oblige.

           Thanking You

Yours truly, *K.Rohit Kumar*
K. Rohit Kumar (B.Tech,M.Tech)
Assistant Prof.
Department of CSE

Official Email:Rohit.k@sreyas.ac.in
Personal Email: :krk542@gmail.com

ABSTRACT

The Aim of this project is to check the resolution and displays of any websites on different types of hand handled devices and store the log information. This new system will provide feasibility to check whether provided website is responsive or not without any help of hand handled devices and to store the logs of visited URLs through Portlet tool to the database. This system is used to track users and visited URLs.

This new system is completely user friendly and allows users to check the website is responsive or not without any mobile, tablet, television etc. Tool should be displayed in 4 sized, (320 x 480(smart phone/I phone), 640 x 480 (tablet), 1024 x 768 (desktop), 1280 x 800 (Laptop/TV) sizes). Global URL should load data in each resolution window as per their resolution/sizes. Each Resolution should be independently browsable. Each portlets should have functionality for close/restore. User level security need to be developed with the system which will maintain the system's confidentiality. The new system will provide feasibility to check whether provided website is responsive or not without any help of hand handled devices which will reduces company's expenses.

GUI to view portlets logs by default logs should be displayed in descending order of last visit. Global URL and individual visited URL through portlet tool should be store the log data in database. Portlet_log need to store details of each devices/portlets separately along with start_time, end_time, load_time and page_size. Functionality to show duration time for status e.g. "status ON 2days 3hrs 20 mins". Ajax validation for status duration i.e. timer should update without reload the page. Functionality to turn on/off portlet logs. Feature to view/delete portlet logs (Users who have the permission they can only view/delete the portlet's logs entry). Only Users have delete portlet logs permission should be able turn on/off portlet logs. URL view page needs filter and count for month, year, user, portlets (default current year and month).This newsystem will track users and visited URLs through portlets.

DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Proposal for project

On

Multi Resolution Tool

Web design encompasses many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design interface design authoring, including standardized code and proprietary software user experience design and search engine optimization. Often many individuals will work in teams covering different aspects of the design process, although some designers will cover them all. The term web design is normally used to describe the design process relating to the front-end (client side) design of a website including writing mark up. Web design partially overlaps web engineering in the broader scope of web development. Web designers are expected to have an awareness of usability and if their role involves creating mark up then they are also expected to be up to date with web accessibility guidelines.

Over the past year, responsive design has become quite the hot topic in the web design community. If all the buzz has you feeling like Rip Van Winkle waking up in the 21st century, this summary will help you catch up with the times.

It's not just small screens, either. Large, high-resolution displays are starting to become much more common than they used to be, and it would be a waste for web designers to not take advantage of this. In summary, the spectrum of screen sizes and resolutions is widening every day, and creating a different version of a website that targets each individual device is not a practical way forward. This is the problem that responsive web design addresses head on. Responsive web design is not a single piece of technology, but rather, a collection of techniques and ideas. Now that we have a better idea of the problem space we're addressing, let's take a

look at each part of the solution.

Fluid Grids

The first key idea behind responsive design is the usage of what's known as a fluid grid. In recent memory, creating a 'liquid layout' that expands with the page hasn't been quite as popular as creating fixed width layouts page designs that are a fixed number of pixels across, and then centred on the page.

1.1 Overview:

This project is all about Responsive web design tool.

For instance:

- The iPhone is 320 pixels wide by 480 pixels high.

- Many Nokia N-Series devices are 240 pixels wide by 320 pixels high.

- Newer devices often support a landscape mode where the width and height are spontaneously reversed up to 352x416 pixels.

- Blackberry screen resolutions range anywhere from 160 x 160 pixels all the way up to 324 x 352 pixel.
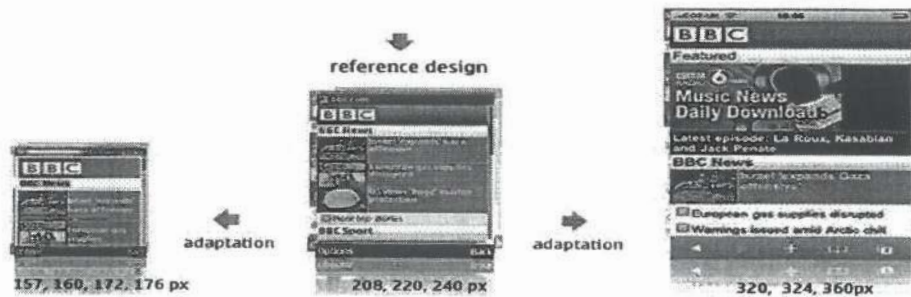

Fig:1.1.1: Handheld devices

1.2 Motivation:

The main motivation for the development of the Multi Resolution Tool is that for the developers to design the websites in a more effective manner. It has been a hectic task for the developers to make websites that are compatible to different device resolutions. It in turn results in the higher cost of development and also more time taking for the development.

This Multi Resolution Tool helps the users to view the same web site in different Resolutions at the same time. Developer is also benefitted by the way that he can view his website into different resolutions at the same time. This helps him to make changes in the resolution that is to be modified. Using this tool also reduces the cost in terms that there is no need to get devices of different resolutions.

1.3 Objective of project:

So, what is responsive design exactly? Actually, a better question to ask might be, what problem does responsive web design solve? Well, as we know, computers aren't the only piece of hardware with a web browser anymore. I might get myself in trouble by saying this, but the iPhone was one of the first mobile devices to feature a really great web browser, and it really put the spotlight on upgrading the experience of the mobile web. Many other devices followed suit and, seemingly overnight, the face of the mobile web had changed.

The changing landscape of web browsers meant that users expectations also changed people expected to be able to browse the web on their phones just as easily as they browse the web on a desktop computer. So, in response to this the web design community started creating mobile versions of their websites. Understanding the situation this wasn't really the way forward, but at the time it seemed like a reasonable idea. Every website would have their normal 'desktop' version of their site, and as a bonus, a 'mobile' version.

Technology never stops marching forward, so not long after the phone hardware market had been revolutionized, other form factors surged in popularity. In addition to phones and

personal computers, devices like touchscreen tablets and small notebook computers (netbooks, if you prefer the term) started appearing everywhere.

It's not just small screens, either. Large, high-resolution displays are starting to become much more common than they used to be, and it would be a waste for web designers to not take advantage of this. In summary, the spectrum of screen sizes and resolutions is widening every day, and creating a different version of a website that targets each individual device is not a practical way forward. This is the problem that responsive web design addresses head on.Previously, I mentioned that responsive web design is not a single piece of technology, but rather, a collection of techniques and ideas. Now that we have a better idea of the problem space we're addressing, let's take a look at each part of the solution.

1.4 Problem formulation:

This tool is for everyone who needs a quick and easy way to test their website design in multiple screen widths. Change the default URL variable at the top of the responsive.php file to your own site and navigate your website from within the frames.

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DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

MULTI RESOLUTION TOOL

By

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1. INTRODUCTION

Web design encompasses many different skills and disciplines in the production and maintenance of websites. The different areas of web design include web graphic design interface design authoring, including standardized code and proprietary software user experience design and search engine optimization. Often many individuals will work in teams covering different aspects of the design process, although some designers will cover them all. The term web design is normally used to describe the design process relating to the front-end (client side) design of a website including writing mark up. Web design partially overlaps web engineering in the broader scope of web development. Web designers are expected to have an awareness of usability and if their role involves creating mark up then they are also expected to be up to date with web accessibility guidelines.

Over the past year, responsive design has become quite the hot topic in the web design community. If all the buzz has you feeling like Rip Van Winkle waking up in the 21st century, this summary will help you catch up with the times.

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Fluid Grids

The first key idea behind responsive design is the usage of what's known as a fluid grid. In recent memory, creating a 'liquid layout' that expands with the page hasn't been quite as popular as creating fixed width layouts page designs that are a fixed number of pixels across, and then centred on the page.

1

1.1 Overview:

This project is all about Responsive web design tool.

For instance:

- The iPhone is 320 pixels wide by 480 pixels high.

- Many Nokia N-Series devices are 240 pixels wide by 320 pixels high.

- Newer devices often support a landscape mode where the width and height are spontaneously reversed up to 352x416 pixels.

- Blackberry screen resolutions range anywhere from 160 x 160 pixels all the way up to 324 x 352 pixel.

Fig:1.1.1: Handheld devices

1.2 Motivation:

The main motivation for the development of the Multi Resolution Tool is that for the developers to design the websites in a more effective manner. It has been a hectic task for the developers to make websites that are compatible to different device resolutions. It in turn results in the higher cost of development and also more time taking for the development.

This Multi Resolution Tool helps the users to view the same web site in different Resolutions at the same time. Developer is also benefitted by the way that he can view his website into different resolutions at the same time. This helps him to make changes in the resolution that is to be modified. Using this tool also reduces the cost in terms that there is no need to get devices of different resolutions.

2

1.3 Objective of project:

So, what is responsive design exactly? Actually, a better question to ask might be, what problem does responsive web design solve? Well, as we know, computers aren't the only piece of hardware with a web browser anymore. I might get myself in trouble by saying this, but the iPhone was one of the first mobile devices to feature a really great web browser, and it really put the spotlight on upgrading the experience of the mobile web. Many other devices followed suit and, seemingly overnight, the face of the mobile web had changed.

The changing landscape of web browsers meant that users expectations also changed people expected to be able to browse the web on their phones just as easily as they browse the web on a desktop computer. So, in response to this the web design community started creating mobile versions of their websites. Understanding the situation this wasn't really the way forward, but at the time it seemed like a reasonable idea. Every website would have their normal 'desktop' version of their site, and as a bonus, a 'mobile' version.

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3

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1.5 System Requirements:

1.5.1 Software Requirements:

Operating System	:	Windows 7
Web Server	:	Apache
Server side Technology	:	PHP
Client side Technology	:	HTML, JavaScript , CSS
Database	:	MySQL
Tools	:	NetBeans , MySQL WorkBench

1.5.2 Hardware Requirements:

Processor	:	Pentium 4
RAM	:	1 GB
Hard Disk	:	80 GB

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2. LITERATURE SURVEY

2.1 Brief about domain:

Literature survey is the most important step in software development process. Before developing the tool it is necessary to determine the time factor, economy company strength. Once these things are satisfied, then next steps are to determine which operating system and language can be used for developing the tool. Once the programmers start building the tool the programmers need lot of external support. This support can be obtained from senior programmers, from book or from websites. Before building the system the above consideration are taken into account for developing the proposed system.

2.2 Existing system

In the existing System, there comes a situation where any website that is browsed that need to be adaptable with different devices of different resolutions have to be developed and tested individually.

This involves in higher costs of Development and also time consuming.

2.3 Problems in Existing system:

This approach isn't without its limitations. Because content must be altered on the client-side with JavaScript, only minimal content changes are encouraged. In general, things can get very hairy very quickly if you are trying to code two separate sets of JavaScript to work with the same DOM. This is a big reason why web applications tend not to adopt this approach.

Giving your existing site a responsive design also involves a rewrite of your styles if you are not sporting a flexible layout already. Though making a site's layout responsive could be a good opportunity to modernize and clean up your site's CSS.

Since we are adding code to your scripts and styles, performance may be worse than the Separate Sites approach. There is not really any way around this,

5

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	SB OPENING BALANCE					0.00	
	FFD BALANCE					0.00	
28/06/2016	BY CASH				5000.00	5000.00Cr	
25/07/2016	Chg For 19-06-2016 T			104.00		4896.00Cr	
29/09/2016	SMS CHARGES APR16-JU			1.08		4894.92Cr	
28/10/2016	NEFT/ TATA CONSULTAN				34104.00	38998.92Cr	
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22/11/2016	NEFT/ TATA CONSULTAN				33810.00	140330.92Cr	
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15/12/2016	BY CASH				50000.00	365093.92Cr	
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10/02/2017	NEFT/ TATA CONSULTAN				43.00	297342.92Cr	
11/02/2017	NEFT/ TATA CONSULTAN				79.00	390071.92	
20/02/2017	NEFT/ TATA CONSULTAN				453.00	403121.92	
09/02/2017	NEFT/ INDIAN INSTITU					PLT	
10/12/2013	NEFT/ TATA CONSULTAN				29.09	18981.92	
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