

### 3.2.2: Grants for research projects sponsored by government agencies during the last five years (INR in Lakhs)

e-copies of the grant award letters for research projects sponsored by government agencies



# The Centre for Entrepreneurship Development

(A Government of Gujarat Organization)

ઉદ્યોગસાહસિકતા વિકાસ સંસ્થાન

(ગુજરાત સરકાર દ્વારા સંચાલિત)

Since 1979

**Dr. R. N. Prasad**  
M. Tech, MBA, Ph.D  
**Director**

CED/5SLIC/SCH2/Jyoti/MKP/NC/332

19<sup>th</sup> June, 2017

22/4

To,  
Mr. Parakramsinh Jadeja,  
Chairman and Managing Director,  
Jyoti CNC Automation Limited,  
G-506, Lodhika GIDC,  
Village : Metoda,  
Rajkot - 360 021

**Subject: Assistance for Setting up Skill Development Center**

**Reference:**

1. Government G.R No.CED-112015-54553-I dated 01.04.2015
2. Your Application dated 17.03.2017.
3. Minutes of the 5<sup>th</sup> State Level Implementation Committee Meeting dated 11<sup>th</sup> April, 2017.

Dear Sir,

Kindly refer to your proposal for Government Assistance *for setting up Short-term Bridge Courses* under the Scheme for Enhancement of Technical Competence and Manpower, Gujarat Industrial Policy, 2015.

The State Level Implementation Committee (SLIC) constituted for the Scheme for Enhancement of Technical Competence and Manpower by Government under the Gujarat Industrial Policy 2015, Government of Gujarat vides GR no. CED-112015-24553-I, dated 01.04.2015, in its 5<sup>th</sup> meeting held on dated 11<sup>th</sup> April, 2017 approved your proposal for Government support of maximum **Rs. 100.00 lacs (Rupees One hundred lacs only) subject to expert view of Gujarat Technological University** under the scheme no. 2 "*Short-term Bridge Courses by Industries/Institute*" in the area of **Foundry Sector** at **Marwadi University, Rajkot Morbi Highway, Gauridad, Rajkot 360003** (Host Institute) to generate skilled and trained manpower.

1. **JYOTI CNC AUTOMATION LIMITED (Applicant)** has to follow the guidelines given in the G.R. no. CED-112015-24553-I, dated 1<sup>st</sup> April, 2015 and its amendments/modification, if any, time to time. Applicant has also to follow the directives given by State Level Implementation Committee, time to time.

**"EMPOWERING INDUSTRY THROUGH SKILL AND ENTREPRENEURSHIP DEVELOPMENT....."**

**H. O. :** Block No.1, 9th Floor, Udyog Bhavan, Sector-11, Gandhinagar-382017

Page 1 of 12

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**Campus :** Plot No. 87&88, Naroda GIDC, Nr. Samrat Namkeen, Reliance Road, Naroda, Ahmedabad-382330

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**Rajkot:** [rjt-ced@gujarat.gov.in](mailto:rjt-ced@gujarat.gov.in) **Bhavnagar:** [bhv-ced@gujarat.gov.in](mailto:bhv-ced@gujarat.gov.in)

2. The estimated cost of project and means of finance will be as under:

Amount Rupees in Lacs

Sr. No.	Details of Cost (Annexure-1)	Proposed Amount	Eligible Amount
1	Cost of New Machinery & Equipment	130.88097	130.88097
2	Cost of Tools	0.50000	0.50000
3	Cost of Furniture and Fixture	3.00000	3.00000
4	Cost of Electrification	2.95340	2.95340
	<b>Total</b>	<b>137.33437</b>	<b>137.33437</b>

**Means of Finance:**

- Applicant Contribution: Rs. 137.33 lacs x 25% = Rs. 34.34 lacs but applicant contribution is **Rs. 37.33 lacs**
- Government Support: Rs. 137.333 lacs x 75%= \*Rs. 103.00 Lacs but maximum Government support is **Rs. 100.00 lacs**  
*\*Maximum support under the Scheme-2 is limited up to Rs. 100.00 lacs*

3. Courses/Skill initiative as proposed/indicated at Annexure-2 (Prescribed by NSDC/MES-NCVT/GCVT/SSC or Other authorized body only).
4. The release of Government support shall be on pro rata basis and subject to submission of Chartered Accountant Certificate.
5. **The Terms and Condition for the said assistance will be as per the G.R. & as specified below:**

**5.1 Role of Industry Partner**

- I. A separate bank account is to be opened for the training purpose/center in name of Skill training Center.
- II. To Contribute minimum 25% of the cost of machinery & equipment including classroom furniture & fixture and cost of refurbishing of building.
- III. Industry Partner shall have to sponsor minimum of 25% intake capacity of course and provide employment at least 75% of sponsored trainees.
- IV. Industry Partner shall have to train the faculty of the Host Institution for capacity building.
- V. Industry Partner shall have to facilitate for in plant practical training to the trainees.
- VI. Industry partner shall have to carry out 3<sup>rd</sup> Party Skill Assessment on completion of the course through empaneled body/Experts under NSDC/NCVT/GCVT/SSC and others National & International body as approved by SLIC.



## **5.2 Role of Host Institute:**

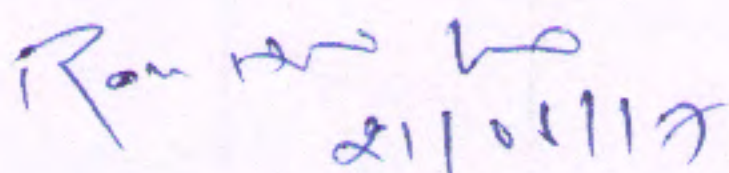
- I. The role of Host Institute is to provide all appropriate infrastructure and environment to run training activity.
- II. The Host Institute has to provide dedicated staff/faculty for running skill development activities.

## **Other Terms and Conditions**

- I. The attendance record should be maintained through an electronic/biometric attendance system/MIS as prescribed by CED, time to time.
- II. Applicant cannot take benefit for Training activities from any other Government/Government bodies for the same purpose.
- III. The assistance granted should only be used for the purpose for which it has been sanctioned.
- IV. Applicant has to submit progress reports in details as per the schedule prescribed by CED, time to time.
- V. Minimum placement/self-employment criteria should be of 75% of total trainees trained/skill assessed. A placement criterion is excluded in case of up skilling for existing employees. Up skilling candidates are allowed maximum up to 30% of total trainees trained.
- VI. Applicant must provide copy of appointment letter as a proof of placement of trainees trained. In case of self-employment candidates should submit required proof of document like registration certificate for EM part-1/Udyog Aadhaar/Shop & Establishment /Proprietorship/Partnership etc. Further in case of up skilling of existing employees a proof of employment record is to be provided.  
**Placement criteria are defined by CED and are attached herewith.**
- VII. Applicant is also eligible for Scheme no. 7 "Assistance for Tuitions fees for Enhancement of Skill" subject to fulfilling above G.R. criteria and availability of necessary infrastructure. For this purpose, prior intimation form CED/Industries Commissionerate is required.
- VIII. Project completion certificate, once implemented, should be submitted within one month of time, duly endorsed by Chartered Accountant.
- IX. Failure in implementation this project by next 6 months, without any justification, will be treated as invalid.

For The Centre for Entrepreneurship Development

Accepted by

  
Director

Authorized Signatory  
(With Seal)



Proposed Project CostCost of New Equipment & Machineries:

Sr. No.	Name	Specification	Supplier / Brand	Quantity	Cost per item	Total Cost in Rs.
1	3D Printer	ProtoCentre 999 Dual Extruder 3D printer Build volume ( XYZ ) 230 X 230 X 230 mm cube Printing material: ABS PLA HIPS Nylon PC	Aha 3d	1	199675	199675
2	3d Scanner with turn table	David (HP) SLS3 with turn table scan accuracy: up to 0.05mm Scan resolution: up to 0.05mm scan size 60 to 500mm	Think 3D	1	587000	587000
3	Data tracker	USB memory for easy data & program transfer. Dual Channel Isolation Technology. 2x Serial 'Smart Sensor' ports User Definable allocation of memory size & mode. Web Interface. FTP for automatic data transfer .Modbus for sensors and SCADA connection. SDI-12 (multiple networks). Up to 48 Analog ( $\pm 30V$ ) sensor inputs .Expandable to 800 analog inputs .12 Flexible Digital channels	Aimil ltd instrumentatin and technologies.	1	293500	293500
4	VMC	MODEL: MTE 4040H	Maheer technologies	1	840000	840000



Sr. No.	Name	Specification	Supplier / Brand	Quantity	Cost per item	Total Cost in Rs.
		POWER 5.5 KW (WATER COOLED) MAXIMUM SPEED 24000 RPM X AXIS:400 MM Y AXIS:400 MM Z AXIS:300 MM				
5	Auto Cast	<ul style="list-style-type: none"> <li>• 3D modeling of primitive parts</li> <li>import of complex parts (.STL file)</li> <li>• MODULES: PART MOLD FEED GATE FLOW+ REPORT</li> <li>• DATABASES: All major metal families processes molds sleeves</li> </ul>	3D Foundry Tech Pvt. Ltd.	1	1590000	1590000
6	Sieve analysis	<p>USE: To find out AFS (Fineness No. – Average Grain Size) of sand</p> <p>SPECS: Vibrator with Motor - 1/8 Hp Single Phase Sieve Set as per ISS No 53 75 106 150 212 300 425 600 850 1700 Micron. Dia. 200 mm with LID &amp; PAN OR (Sieves As Per Requirement) Timer 0-15 Min.</p>	MADRAS METALLURGICAL SERVICES PVT LTD	1	41400	41400
7	PERMEABILITY TESTER	<p>USE: To determine porosity in Raw sand Green No-bake sand.</p> <p>SPECS: With Air Tank Water Tank Manometer Unit Permeability Chart 2 Orifices And Syphon Unit</p>	MADRAS METALLURGICAL SERVICES PVT LTD	1	21275	21275



Sr. No.	Name	Specification	Supplier / Brand	Quantity	Cost per item	Total Cost in Rs.
8	ALLUMINIUM MOLDING BOX	20 x 20 x 4.5	Kelsons engineers and fabricators	1	20550	20550
9	Core sand Mixer	50KG capacity	Kelsons engineers and fabricators		90000	90000
10	MATCH PLATE with Pattern	20*20 size	Kelsons engineers and fabricators	1	15000	15000
11	MOULD HARDNESS TESTER (DIGITAL) ('B' SCALE)	USE: To determine surface hardness of Green Mould. SPECS: Digital Dial Indicator To Measure Hardness of Mould 0 - 100 No	MADRAS METALLURGICAL SERVICES PVT LTD	1	11500	11500
12	Induction Furnace	15 KW Advance Highly efficient designs IGBT based digital controlled power unit. Crusible:- 5 Kg Digital energy monitoring system	R A Induction	1	682500	682500
13	Bottom pouring Type stir casting machine with vacuum squeeze & rotary centrifugal casting attachments & accessories for MMC in Aluminum & Magnesium	Max. capacity of melting pot -0.8 to 2 kg of Aluminium or Magnesium Continuous operating temp. - 950 440v 3-phase variable stirrer speed 100 to 1500 rpm	Swan Equip.	1	1954575	1954575
14	UNIVERSAL TESTING MACHINE MODEL SE UTE-1000 KN	Test capacity:- 1000 KN	MADRAS METALLURGICAL SERVICES PVT LTD	1	1118950	1118950
15	ROCKWELL HARDNESS TESTER MODEL SE RASN - DIGITAL	Preliminary test force: 98.07 N Additional test force: 490.3 882.6 1373N (50 90 140 kgf)	MADRAS METALLURGICAL SERVICES PVT LTD	1	201250	201250



Sr. No.	Name	Specification	Supplier / Brand	Quantity	Cost per item	Total Cost in Rs.
16	Vicker hardness tester	Test Loads : 510203050 kg Magnification of optical projection : 70x Max.Test Height (mm) : 200 Scale least count (mm) : 0.001 Depth of throat (mm) : 133 Dimensions of Machine (mm) : L595 x W 290 x H 860 Weight (Approx) : 73 kg Power Supply : 220V AC 50 Hz 1 – phase	MADRAS METALLURGICAL SERVICES PVT LTD	1	207000	207000
17	Impact test [Izod]	Pendulum Effective Weight (Kg.) 21300 Striking Velocity of Pendulum (m/Sec):- 3.994	Gujarat Metco	1	504000	504000
18	Metallurgical Microscope	CO-AXIAL TRINOCULAR RESEARCH METALLURGICAL MICROSCOPE MODEL VISION PLUS 5000 TMM AS per the catalogue attached.	MADRAS METALLURGICAL SERVICES PVT LTD	1	258750	258750
19	Double Disc Polishing Machine	RPM : 2000 RPM Variable RPM Controller Model : G-1313	Gujarat Metco	1	37470	37470
20	Spectrometer	Spectral Range:7800 to 350cm <sup>-1</sup> Resolution: Better than 0.85 cm <sup>-1</sup> Wave number Precision : ±0.01CM <sup>-1</sup> Scanning Speed: 5-	LABTRONICS	1	1008000	1008000





Sr. No.	Name	Specification	Supplier / Brand	Quantity	Cost per item	Total Cost in Rs.
		step adjustable for different				
21	Hand held XRF Alloy Analyzer	4W X-ray tube <145 eV FWHM @ 5.95 keV Mn line Calibration sample 316 stainless steel Large area silicon drift detector	Lab India	1	1800000	1800000
22	UT [Ultrasonic testing]	Single ray pulse. Einstine-II	Gujarat Metco- ModSonic	1	175123	175123
23	MpT [Magnetic Particle testing]	440mm x 330mm x 125 mm pole spacing: 0 to 200nm duty cycle: 50% on 5 minute Test process: Dry or wet	Gujarat Metco	1	18400	18400
24	LPT [Liquid pentrant testing]	3 bottle [cleaner pentrant and devloper]	Gujarat Metco	1	900	900
25	Digital Vernier Calipar	0-150 mm	Marck Instruments	1	3360	3360
26	Digital Micrometer	0-25 mm	Marck Instruments	1	5670	5670
27	Digital Height gauge	0-300 mm	Marck Instruments	1	19110	19110
28	Plunger Type Dial gauge	0.01 mm	Marck Instruments	1	2415	2415
29	Digital Thermometer	Temp. measurement	Marck Instruments	1	1155	1155
30	Arduino Mega Processor	Mega 2560 R3 board + USB cable	Arduino	4	3150	12600
31	Air compressor for VMC [10 bar]	RPM: 1000, Presser in PSIG 17, Mounting: F Tank- 150 Ltr, Starter Type: DOL, 3 HP Motor	P. Prabhudas Engg. Pvt. Ltd.	1	68500	68500
32	3d Printing Filament		Raiyaraj enterprise	1	1200	1200
33	Square Wood [4'' 3'']		Local Market	20	300	6000
34	Moulding Box		Local Market	1	3000	3000
35	Green Sand		Western Minerals	200 Kg	100	2000



Sr. No.	Name	Specification	Supplier / Brand	Quantity	Cost per item	Total Cost in Rs.
		step adjustable for different				
21	Hand held XRF Alloy Analyzer	4W X-ray tube <145 eV FWHM @ 5.95 keV Mn line Calibration sample 316 stainless steel Large area silicon drift detector	Lab India	1	1800000	1800000
22	UT [Ultrasonic testing]	Single ray pulse. Einstine-II	Gujarat Metco- ModSonic	1	175123	175123
23	MpT [Magnetic Particle testing]	440mm x 330mm x 125 mm pole spacing: 0 to 200nm duty cycle: 50% on 5 minute Test process: Dry or wet	Gujarat Metco	1	18400	18400
24	LPT [Liquid pentrant testing]	3 bottle [cleaner pentrant and devloper]	Gujarat Metco	1	900	900
25	Digital Vernier Calipar	0-150 mm	Marck Instruments	1	3360	3360
26	Digital Micrometer	0-25 mm	Marck Instruments	1	5670	5670
27	Digital Height gauge	0-300 mm	Marck Instruments	1	19110	19110
28	Plunger Type Dial gauge	0.01 mm	Marck Instruments	1	2415	2415
29	Digital Thermometer	Temp. measurement	Marck Instruments	1	1155	1155
30	Arduino Mega Processor	Mega 2560 R3 board + USB cable	Arduino	4	3150	12600
31	Air compressor for VMC [10 bar]	RPM: 1000, Presser in PSIG 17, Mounting: F Tank- 150 Ltr, Starter Type: DOL, 3 HP Motor	P. Prabhudas Engg. Pvt. Ltd.	1	68500	68500
32	3d Printing Filament		Raiyaraj enterprise	1	1200	1200
33	Square Wood [4'' 3'']		Local Market	20	300	6000
34	Moulding Box		Local Market	1	3000	3000
35	Green Sand		Western Minerals	200 Kg	100	2000



Sr. No.	Name	Specification	Supplier / Brand	Quantity	Cost per item	Total Cost in Rs.
36	Dry Sand		Western Minerals	50 Kg	100	1000
37	Dry silica sand [Resin coated]		Western Minerals	50 Kg	50	2500
38	Core-set oil		Western Minerals	10 Lr.	200	2000
39	3-part binder Garset-A [40 Kg] Garset-B [4 Kg] Garset-C[400 gm]		Shah brothers rajkot	45 Kg	150	6750
40	Sensor	For Data Acquisition system [Temperature humidity RPM]	Local supplier		50000	50000
41	Lm-6 Ingot		Local Market	10 Kg	250	2500
42	Miscellaneous	Foundry safety VMC tool Rammer other foundry material like plunger chaplet etc.	Local Market		50000	50000
43	Desktop PC	Lenovo (C 40-30) All in One Desktop (Core i5 3rd Generation/1 TB/4 GB/21.5 inch screen/Windows 8.1)	Lenovo	20	46261	925220
44	Laptop	Lenovo- 500 14 Intel Core i5 Processor (6th Gen) 4 GB DDR3 RAM 64 bit Windows 10 Operating System 1 TB HDD 14 inch Touchscreen Display	Lenovo	2	57000	114000
45	Printer	Canon imageCLASS MF621Cn 3 in 1 Color Print-Copy & Scan 600 x 600dpi	Canon	1	43999	43999



**Cost of Furniture & Fixture :**

Sr. No.	Name	Description	Supplier / Brand	Quantity	Cost per item	Total Cost in Rs.
1	Classroom & Lab furniture	Customize Table Chair Partition work etc.	local	Labor cost with material	300000	300000
<b>Grand Total Cost</b>						<b>300000</b>

**Cost of Electrification :**

Sr. No.	Description	Quantity	Cost per item	Total Cost in Rs.
1	Computer lab and Foundry lab (Metal Casting) wiring (material with labor cost)	600 sq. ft.	170 per sq. ft.	102000
2	Earthing	1	8000	8000
3	Air conditioner for computer lab & Foundry Lab	6	30890	185340
<b>Grand Total Cost</b>				<b>295340</b>



**Proposed Course Details:**

Sr No	Name of Subject	Duration of course In Hrs.	Batches per year	No of Trainees per batch	Fees per trainee in Rs.	Certification	Min. Qualification/ Age
1	Rapid Casting: (Tooling; Methoding; Automation & Simulation)	126	4	20	15000	GTU/ Marwadi University	12 <sup>th</sup> & ITI /18
2	Rapid Tooling in Metal Casting	42	3	20	5000	GTU/ Marwadi University	12 <sup>th</sup> & ITI /18
3	Rapid Methoding in Casting	42	3	20	5000	GTU/ Marwadi University	12 <sup>th</sup> & ITI /18
4	Rapid Casting – Automation & Simulation	42	5	20	5000	GTU/ Marwadi University	12 <sup>th</sup> & ITI /18
5	Inspection & Quality Control in Metal Casting	42	5	20	5000	GTU/ Marwadi University	Diploma/18
6	*Need based customized courses as per industry requirement	42 to 126	7	20	5000 to 15000	Marwadi University	8 <sup>th</sup> pass, min 5 year exp./18

\*Course Curriculum will be prepare/modified as per the demand of industry.



FILE NO. IMRC/AISTDF/CRD/2018/000012  
AISTDF Secretariat  
Science & Engineering Research Board (SERB)

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 23-May-2019

No. IMRC/AISTDF/R&D/P-1/2017

**ORDER**

Approval of the Chairman AISTDF (Secretary DST) is hereby accorded for implementation of the ASEAN-India Collaborative research project entitled "Graphene metasurface based biosensor devices" for a total amount of Rs. 1746192/- (Rs. Seventeen Lakh Forty Six Thousand One Hundred and Ninety Two Only) for period of 2 years from the date of issue of this sanction order.

The composition of the project team(s) is as below:

**INDIA**

Lead PI

Dr. SHOBHITKUMAR KIRITKUMAR PATEL

Marwadi Education Foundation, Rajkot-Morbi Road, Opp Mahadev Wadi, Gauridad, Rajkot, Gujarat, Rajkot-360003, Rajkot-morbi road, opp mahadev wadi, gauridad, rajkot, Rajkot, Gujarat-360003

**Other Participant**

To Be Appointed Later

**ASEAN MS-1**

Lead PI

Prof. Ranjan Singh

Nanyang Technological University Division of Physics and Applied Physics School of Physical and Mathematical Sciences  
21 Nanyang Link Singapore-637371

**ASEAN MS-2**

Lead PI

Dr. Rozalina Binti Zakaria

UNIVERSITY OF MALAYA LEMBAH PANTAI, 50603 KUALA LUMPUR

The change/ replacement of project participants is not allowed. The participating scientists should be working on the project and affiliated with the Institute/University holding the indicated position at the time of start of the project as well as at the time of exchange visits under the project. The project grant can be utilized only for the approved items /visits of participating scientists, as mentioned above.

The break-up of estimated expenditure is as indicated below-

**1. Mobility budget:**

Year : 1

Name	Source Country	Destination Country	No. of Days	Airfare, Visa Fee etc	Accommodation, per-diem etc	Total Amount
Dr. SHOBHITKUMAR KIRITKUMAR PATEL	India	Singapore	14	35000	70000	105000
Prof. Ranjan Singh	Singapore	India	14	35000	70000	105000
Dr. Rozalina Binti Zakaria	Malaysia	India	14	35000	70000	105000
Dr. SHOBHITKUMAR KIRITKUMAR PATEL	India	Malaysia	14	35000	70000	105000

Year : 2

Name	Source Country	Destination Country	No. of Days	Airfare, Visa Fee etc	Accommodation, per-diem etc	Total Amount
Prof. Ranjan Singh	Singapore	India	14	35000	70000	105000
Dr. SHOBHITKUMAR KIRITKUMAR PATEL	India	Malaysia	14	35000	70000	105000
Dr. SHOBHITKUMAR KIRITKUMAR PATEL	India	Singapore	14	35000	70000	105000
Dr. Rozalina Binti Zakaria	Malaysia	India	14	35000	70000	105000

## 2. Research Grant:

S. No	Head	Year-I	Year-II	Total Budget Sanctioned (in INR)
<b>A</b>	<b>Non-recurring (Capital Items)</b>			
1	Equipment	0	0	0
	<i>Total - Non - recurring grant</i>			0
<b>B</b>	<b>Recurring Items</b>			
1	Manpower	431520	431520	863040
2	Consumables	0	0	0
3	Contingencies	0	0	0
4	Other Cost	0	0	0
	Total (Manpower, Consumables, Contingencies, Other Cost)			863040
<b>C</b>	<b>Overhead Expenses ( 5% of Non-travel expenses)</b>	21576	21576	43152
	<b>Total cost of the project (Without Travel)</b>	453096	453096	906192

## 3. Overall Budget:

S. No	Head	Year-I	Year-II	Total Budget Sanctioned (in INR)
<b>A</b>	<b>Non-recurring (Capital Items)</b>			
1	Equipment	0	0	0
	<i>Total - Non - recurring grant</i>			0
<b>B</b>	<b>Recurring Items</b>			
1	Manpower	431520	431520	863040
2	Consumables	0	0	0
3	Travel (Domestic and International)	420000	420000	840000
4	Contingencies	0	0	0
5	Other Cost	0	0	0
	Total-I (Travel - Domestic and International)			840000
	Total-II (Manpower, Consumables, Contingencies, Other Cost)			863040
<b>C</b>	<b>Overhead Expenses ( 5% of Non-travel expenses)</b>	21576	21576	43152
	<b>Total cost of the project</b>	873096	873096	1746192

Sanction of the Chairman-AISTDF is also accorded for the release of Rs. Rs. 873096/- (Rupees Eight Lakh Seventy Three Thousand and Ninety Six only) as first year grant.

The release of this grant is subject to:-


1. No re-appropriation of funds from one sub-head to another is allowed.
2. Obtaining prior approval of the AISTDF Secretariat for all project related visits to be undertaken by the scientist(s) from the either side in connection with the implementation with of this project, separately through online system ([aistdf.gov.in](http://aistdf.gov.in)), at-least 4 weeks in advance before incurring any expenditure for this purpose.
3. Submission of Utilization Certificate (UC) and a Statement of Expenditure (SE) along with up-to-date progress report at the end of each financial year for the grants already received under the project and seeking specific approval of this Department for carry forward of unspent funds to the next financial year for utilization under the project
4. The international / domestic air-travel pertaining to visits under this project is to be performed by lowest economy class by shortest route.
5. The grantee Institute/University shall maintain separate audited accounts for the project and the amount of grant will be kept in a bank account earning interest. The Interest earned should be reported to AISTDF Secretariat while submitting the SE/UC. The Interest thus earned will be treated as a credit to the institute to be adjusted towards further instalment of grant.
6. The accounts of the grantee institution shall be open to inspection by the sanctioning authority /audit whenever the institution is called upon to do so, as laid down under Rule 211 of General Financial Rules.

The expenditure involved is to be debited "Grant-in-Aid" sub-head of the ASEAN-India Science & Technology Development Fund (AISTDF) during the current financial year 2019-20

The Sanction has been issued to Marwadi Education Foundation, Rajkot-Morbi Road, Opp Mahadev Wadi, Gauridad, Rajkot with the approval of the competent authority under delegated powers on **22 May, 2019** and vide Diary No. **SERB/F/834/2019-2020** dated **22 May, 2019**

The release amount of **Rs. 873096/-** (Rupees Eight Lakh Seventy Three Thousand and Ninety Six only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

Account Name	MEFGI FACULTY OF ENGINEERING
Account Number	313220110000012
Bank Name & Branch	BANK OF INDIA MARWADI EDU CAMPUS BANK OF INDIA MARWADI EDUCATION CAMPUS VILLAGE GAURIDAD DIST RAJKOT PIN NO 360003
IFSC/RTGS Code	BKID0003132
Email id of A/C Holder	registrar@marwadieducation.edu.in
Email id of PI	shobhitkumar.patel@marwadieducation.edu.in

  
**(Raj Kumar Sharma)**  
 Member Secretary (AISTDF)

To,  
 Under Secretary  
 SERB, New Delhi  
 Copy forwarded for information and necessary action to: -

1. The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2. Sanction Folder, SERB, New Delhi.
3. File Copy
4. **Dr. SHOBHITKUMAR KIRITKUMAR PATEL**  
 Electronics and Comm  
 Marwadi Education Foundation, Rajkot-Morbi Road, Opp Mahadev Wadi,  
 Gauridad, Rajkot, Gujarat, Rajkot-360003, Rajkot-morbi road, opp mahadev



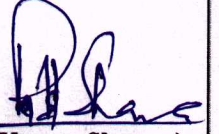
wadi, gauridad, rajkot, Rajkot, Gujarat-360003  
Email: shobhitkumar.patel@marwadieducation.edu.in  
Mobile: 917435855995

Director/Registrar

5.

Marwadi Education Foundation, Rajkot-Morbi Road, Opp Mahadev Wadi,  
Gauridad, Rajkot

(Receipt of Grant may be intimated by name to the undersigned)



(Raj Kumar Sharma)  
Member Secretary(AISTDF)

Close

Send Sanction Letter to DDO

Print

To,  
Dr. Amit Sata  
Mechanical Engineering  
Marwadi University  
Rajkot  
Date:07-Jan-2021


**Subject: Approval of Startup titled Udyog 4.0 LLP**

Dear Dr. Amit Sata,

Marwadi University Centre for Innovation, Incubation and Research is delighted to inform you that your application of Startup **Udyog 4.0 LLP** submitted has been approved during University Level Scrutiny Committee (ULSC) meeting held on **07-Jan-2021**.

Total recommended fund for the project by ULSC is **Rs 20,00,000** under **Startup Gujarat Scheme Nodal IC**

Kindly note approval reference number **MU/NODALIC/2020-21/1** for future communication.



**Mr. Naresh Jadeja**  
Registrar,  
Marwadi University



Rameshkumar Bhoraniya &lt;rameshbhoraniya@gmail.com&gt;

**SERB-Notification**

3 messages

**Dr. Pankaj Rawat** <ms\_cmer@serbonline.in>  
To: serbinfo1@gmail.com

Fri, Jan 15, 2021 at 4:34 PM

**Science and Engineering Research Board**  
(Statutory Body Established Through an Act of Parliament : SERB Act 2008)  
Department of Science and Technology, Government of India

SCIENCE &amp; ENGINEERING RESEARCH BOARD (SERB)

(Statutory Body Established Through an Act of Parliament : SERB Act 2008)

Science and Engineering Research Board  
5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Sector-B, Pocket-5  
Vasant Kunj  
New Delhi - 110 070Approval LetterFile Number: CRG/2020/005698

Dated: 15-Jan-2021

Subject: Project titled "Effect of oblique non-uniform suction and injection on the global stability of the flat-plate boundary layer".

Dear Dr. Rameshkumar Muljibhai Bhoraniya,

The project cited above has been recommended by the related **Core Research Grant** to the Science and Engineering Research Board (SERB) for funding. The following are the items recommended for a period of 3 years. The final budget to be sanctioned would be based on quotations received, existing norms, funds availability etc.

**The committee recommended the following budget****Manpower : Rs. 1164000****-> Junior Research Fellow - 1****Equipment Details : Rs. 500000****-> Workstation - 1****Consumables : Rs. 30000****Travel Cost : As per norms****Contingencies : As per norms****Overhead : As per norms**

You need to accept the above budgetary allocation before proceeding further. To accept the budgetary recommendations , you may follow the following steps :

1. Go to [www.serbonline.in](http://www.serbonline.in) through your credentials
2. Go to Menu --> Proposal submission --> View submitted proposals
3. Click on the link under Status column "Proposal Approved, Acknowledgment pending from PI"

**You are requested to upload the following documents of the approved budget strictly within 15 days from the date of this letter.**

1. Upload the lowest quotation for equipment/s (including freight, insurance, customs charges etc., if any).
2. Salary structure for the project staff (including HRA, Medical Benefits, if applicable etc.).
3. A certificate stating that any visit abroad for a period more than eight weeks would be undertaken after due permission from SERB, may also be submitted.
4. RTGS details of the implementing institute to facilitate transfer of the fund as per the template.
5. Any other documents (as detailed below specific the programme concerned).

SERB has adopted the Scientific Social Responsibility (SSR) Policy which mandates SERB Grantees to undertake some SSR activities during their project period. You are requested to read the SSR guidelines available under SSR menu and choose the activities according to your preference. Depending on the activity chosen, additional budget would be provided under separate head to carry out the chosen activities. Please note that choosing the SSR activities is mandatory for issue of financial sanction subject to submission and acceptance of other necessary documents

Kindly upload the documents related viz., animal ethical clearance certificate, institutional bio safety clearance certificate, etc., matching with exact approved title of project submitted to SERB.

If the project does not require (viz., animal ethical clearance certificate, institutional bio safety clearance certificate, etc.) please confirm with a self-certification saying that it does not involve any animal/human studies or genetic modification in any organisms or bio safety issues.

**(Kindly note that during the issue of sanction order or during the implementation of this project, if SERB come across/found that the project work involves/requires animal/human studies or genetic modification in any organisms or bio safety issues, RCGM approval/ approval from Biodiversity Management Committee Environmental clearance, the project may be terminated without any notice.)**

Please note that release of grant is subject to availability of funds under the scheme. Kindly quote the reference number in all future correspondence. The project's reference no. **CRG/2020/005698** may also be mentioned in all research communications arising from the above project.

Yours sincerely,

(Dr. Pankaj K. Rawat)

Email: [ms\\_cmer@serbonline.in](mailto:ms_cmer@serbonline.in)

Dr. Rameshkumar Muljibhai Bhoraniya

Mechanical Engineering

Marwadi Education Foundation , Rajkot-morbi Road, Opp Mahadev Wadi, Gauridad, Rajkot, Rajkot, Gujarat-360003

\*\*\*\*\* LEGAL DISCLAIMER \*\*\*\*\*

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---

**Rameshkumar Bhoraniya** <rameshbhoraniya@gmail.com>  
To: Vinod Narayanan <vinod@iitgn.ac.in>

Fri, Jan 15, 2021 at 5:06 PM

[Quoted text hidden]

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**Rameshkumar Bhoraniya** <rameshbhoraniya@gmail.com>  
To: rajendrasinh.jadeja@marwadieducation.edu.in

Fri, Jan 15, 2021 at 5:14 PM

----- Forwarded message -----

From: **Dr. Pankaj Rawat** <ms\_cmer@serbonline.in>  
Date: Fri, Jan 15, 2021 at 4:34 PM  
Subject: SERB-Notification  
To: <serbinfo1@gmail.com>

[Quoted text hidden]

FILE NO. CRG/2020/005698  
SCIENCE & ENGINEERING RESEARCH BOARD(SERB)  
(A statutory body of the Department of Science & Technology, Government of India)

5 & 5A, Lower Ground Floor  
Vasant Square Mall  
Plot No. A, Community Centre  
Sector-B, Pocket-5, Vasant Kunj  
New Delhi-110070

Dated: 03-Mar-2021

**ORDER**

Subject: Financial Sanction of the research project titled "**Effect of oblique non-uniform suction and injection on the global stability of the flat-plate boundary layer**" under the guidance of Dr. Rameshkumar Muljibhai Bhoraniya, Mechanical Engineering, Marwadi Education Foundation, Rajkot-morbi road, opp mahadev wadi, gauridad, rajkot, Rajkot, Gujarat-360003 and by Dr. Vinod Narayanan, Associate Professor, Mechanical Engineering, Indian Institute Of Technology, Gandhinagar - Release of 1st grant.

Sanction of Science and Engineering Research Board (SERB) is hereby accorded to the above mentioned project at a total cost of Rs. 2201210/- (Rs. Twenty Two Lakh One Thousand Two Hundred and Ten Only) with break-up of Rs. 497100/- under Capital (Non-recurring) head and Rs.1704110/- under General (Recurring) head for a duration of 36 months. The items of expenditure for which the total allocation of Rs. 2201210/- has been approved are given below:

S. No	Head	Total (in Rs.)
A	Non-recurring	
1	Equipment -> Workstation	497100
A'	Total (Non-Recurring)	497100
B	Recurring Items	
1	Recurring - I : (Manpower) Recurring - II : ( Consumables, Travel, Contingencies) Recurring - III : Scientific Social Responsibility	1164000 330000 10000
2	Recurring - IV : (Overhead Charges)	200110
B'	Total (Recurring)	1704110
C	Total cost of the project (A' + B')	2201210

2. Sanction of the SERB is also accorded to the payment of Rs. 497100/- (Rupees Four Lakh Ninety Seven Thousand One Hundred only) under 'Grants for creation of capital assets' and Rs. 574700/- (Rupees Five Lakh Seventy Four Thousand Seven Hundred only) under 'Grants-in-aid General' to Registrar, Marwadi Education Foundation, Rajkot-Morbi Road, Opp Mahadev Wadi, Gauridad, Rajkot being the first installment of the grant for the year 2020-2021 for implementation of the said research project.

3. The expenditure involved is debit to Fund for Science & Engineering Research (FSER)  
This release is being made under Core Research Grant. (PAC on Mechanical, Manufacturing, Aerospace Engineering & Robotics)

4. The Sanction has been issued to Marwadi Education Foundation, Rajkot-Morbi Road, Opp Mahadev Wadi, Gauridad, Rajkot with the approval of the competent authority under delegated powers on 23 February, 2021 and vide Diary No. SERB/F/8009/2020-2021 dated 03 March, 2021

5. Sanction of the grant is subject to the conditions as detailed in Terms & Conditions available at website ([www.serb.gov.in](http://www.serb.gov.in)).

6. Overhead expenses are meant for the host Institute towards the cost for providing infrastructural facilities and general administrative support etc. including benefits to the staff employed in the project.

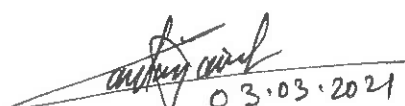
7. While providing operational flexibility among various subheads under head Recurring-II, it should be ensured that not more than Rs. 1.5 lakh each should be spent for travel and contingency.

8. Budget sanctioned under Scientific Social Responsibility (SSR) is meant only for activities enlisted under SSR norms and under no circumstances it can be reappropriated.

9. As per rule 211 of GFR, the accounts of project shall be open to inspection by sanctioning authority/audit whenever the institute is called upon to do so.

10. The sanctioned equipment would be procured as per GFR and its disposal of the same would be done with prior approval of SERB.

11. The release amount of Rs. 1071800/- (Rupees Ten Lakh Seventy One Thousand Eight Hundred only) will be drawn by the Under Secretary of the SERB and will be disbursed by means of RTGS transaction as per their Bank details given below:

  
03.03.2021

PFMS Unique Code	GJRA00004180
Account Name	MEFGI - Faculty of Engineering
Account Number	310320110000316
Bank Name & Branch	Bank of India Panchnath Branch - Rajkot, Moti Tanki Chowk , Panchnath plot, Rajkot-360001, Gujarat state
IFSC/RTGS Code	BKID0003103
Email id of A/C Holder	registrar@marwadieducation.edu.in
Email id of PI	rameshbhoraniya@gmail.com

12. The institute will furnish to the SERB, separate Utilization certificate (UCs) financial year wise to the SERB for Recurring (Grants-in-aid General) & Non-Recurring (Grants for creation of capital assets) and an audited statement of accounts pertaining to the grant immediately after the end of each financial year.

13. The institute will maintain separate audited accounts for the project. A part or whole of the grant must be kept in an interest earning bank account which is to be reported to SERB. The interest thus earned will be treated as credit to the institute to be adjusted towards further installment of the grant.

14. The project File no. CRG/2020/005698 may also be mentioned in all research communications arising from the above project with due acknowledgement of SERB.

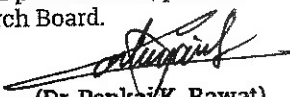
15. The manpower sanctioned in the project, if any is co-terminus with the duration of the project and SERB will have no liability to meet the fellowship and salary of supporting staff if any, beyond the duration of the project

16. As this is the first grant being released for the project, no previous U/C is required.

17. The institute may refund any unspent balance to SERB by means of a Demand Draft favoring "FUND FOR SCIENCE AND ENGINEERING RESEARCH" payable at New Delhi.

18. The organization/institute/university should ensure that the technical support/financial assistance provided to them by the Science & Engineering Research Board should invariably be highlighted/ acknowledged in their media releases as well as in bold letters in the opening paragraphs of their Annual Report.


19. In addition, the investigator/host institute must also acknowledge the support provided to them in all publications, patents and any other output emanating out of the project/program funded by the Science & Engineering Research Board.

  
(Dr. Pankaj K. Rawat)  
Scientist D  
ms\_cmer@serbonline.in

To,  
Under Secretary  
SERB, New Delhi

Copy forwarded for information and necessary action to: -

1.	The Principal Director of Audit, A.G.C.R. Building, IIIrd Floor I.P. Estate, Delhi-110002
2.	Sanction Folder, SERB, New Delhi.
3.	File Copy
4.	<p><b>Dr. Rameshkumar Muljibhai Bhoraniya</b> Mechanical Engineering Marwadi Education Foundation, Rajkot-morbi road, opp mahadev wadi, gauridad, rajkot, Rajkot, Gujarat-360003 Email: rameshbhoraniya@gmail.com Mobile: 919979753510</p> <p><b>Dr. Vinod Narayanan</b> Mechanical Engineering Indian Institute Of Technology, Gandhinagar (Start date of the project may be intimated by name to the undersigned. For guidance, terms &amp; Conditions etc. Please visit <a href="http://www.serb.gov.in">www.serb.gov.in</a>.)</p>
5.	<p><b>Registrar,</b> Marwadi Education Foundation, Rajkot-Morbi Road, Opp Mahadev Wadi, Gauridad, Rajkot</p> <p>(Receipt of Grant may be intimated by name to the undersigned)</p>

  
(Dr. Pankaj K. Rawat)  
Scientist D  
ms\_cmer@serbonline.in

# GUJARAT COUNCIL ON SCIENCE AND TECHNOLOGY

Department of Science & Technology, Government of Gujarat



सत्यमेव जयते

Block : B, 7th Floor, M. S. Building, Nr. Pathikashram, Sector-11,  
Gandhinagar, Gujarat - 382011.

Phone : (079) 23259362-65 Fax : (079) 23259363

E-mail : info-gujcost@gujarat.gov.in

URL : www.gujcost.gujarat.gov.in



**Dr. Narottam Sahoo**

Advisor & Member Secretary

No. GUJCOST/Supercomputer/2020-21/ 1405

1<sup>st</sup> October 2020

To,

**Dr. Y. P. Kosta**

Provost, Marwadi University

Rajkot-Morbi Road, Rajkot-360003

Sub: Establishment of the Supercomputer facility at Institute of Marwadi University, Rajkot.

Dear Sir,

Greetings from the Gujarat Council on Science and Technology (GUJCOST), Gandhinagar.

It is our pleasure to inform you that your institution has been selected for the award of establishment of Supercomputer facility for the students and academic researcher for conducting high-end in-house advance computing studies and research work.

The supercomputing facilities through GUJCOST includes the Param Shavak system indigenously developed by C-DAC for high-performance computing and deep learning equipped with x86 based latest Intel processor, 96 GB RAM, 16 TB storage, Nvidia based co-processing accelerator technologies and software development environment. This brings innovative and ground breaking technological approaches to high end computing on table top platform and does not require costly data center infrastructure.

GUJCOST supercomputer facility aims to provide capacity building among students and faculties with advanced technologies to perform high-end computations for scientific, engineering and academic programs to address and catalyze the research using modelling, Simulation and data analysis. The facility will also help in promoting research by integrating Leading-edge emerging technologies at the grass root level.

The establishment of the supercomputing facility in your institution will be carried out as per the GUJCOST guidelines and terms and conditions, which is enclosed herewith as Annexure-I for your reference.

We once again thank you for your kind interest and look forward to creating high performance computing culture among an ideal platform for students to innovate.

Thank you and with best regards.

Yours sincerely,

  
(Narottam Sahoo)

Encl.: As above.



Date: 19<sup>th</sup> January, 2021.

To,

Dr. Payal H Pandit  
Scientific Officer (R&D)  
Gujarat Council on Science and Technology  
Dept. of Science and Technology, Govt. of Gujarat  
Block B, 7<sup>th</sup> Floor, M.S. Building, Sector 11,  
Gandhinagar-382011.  
Gujarat.

**Sub:** Memorandum of Understanding between the Supercomputer Awardee Institute and GUJCOST.

Respected Madam,

Greetings from Marwadi University, Rajkot!!!

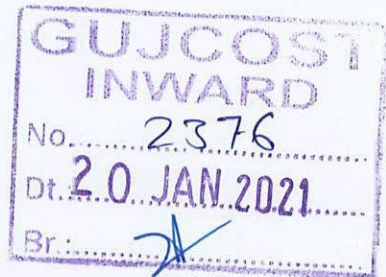
We are in receipt of your email communication dated 15<sup>th</sup> January, 2021, in reference to the captioned subject.

Kindly find enclosed signed copy of MoU by the Head of the Institute, Principal Investigator and the Assistant Coordinator, as required and guided.

Please feel free to update us for any further requirements, if any.

Thanks & Regards,

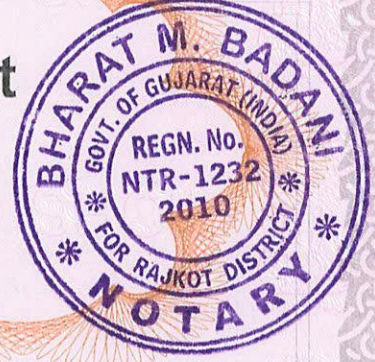
*[Signature]*  
Prof. (Dr.) Rajendrasinh Jadeja  
Dean – Faculty of Engineering & PI for the Project.





सत्यमेव जयते

**INDIA NON JUDICIAL**  
**Government of Gujarat**  
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### MEMORANDUM OF UNDERSTANDING

This Memorandum of Understanding (MoU) is made on 18<sup>th</sup> January, 2021 at Gandhinagar (Gujarat).

**BETWEEN**

**GUJRAT COUNCIL ON SCIENCE AND TECHNOLOGY (hereinafter referred as GUJCOST), Department of Science and Technology, Government of Gujarat having its office at Block No: B, 7<sup>th</sup> Floor, Sector 11, Gandhinagar-382011**

**AND**

**1. THE INSTITUTION. (Name and address of the Institution)**

**Marwadi University  
Rajkot – Morbi Highway,  
Rajkot – 360003.  
Gujarat, India.**

**Name, Head of the Institution: Mr. Naresh Jadeja  
Designation: Registrar – Marwadi University**



## 2. PROJECT COORDINATOR

Name: Dr. Rajendrasinh Jadeja  
Designation: Dean, Faculty of Engineering

Assistant Coordinator

Name: Dr. Dinesh Kumar  
Designation: Associate Professor – Computer Engg. (AI & Big Data)

(Hereinafter referred to as Coordinator)

WHEREAS the GUJCOST is interalia involved in popularization of Science and Technology and Promotion of Research and Development of Science and Technology in the State of Gujarat.

GUJCOST has established the Supercomputer facility PARAM Shavak developed by C-DAC at the Marwadi University for providing the platform to the young students and academic researcher with innovative ideas and to provide an end-to-end solution for high-performance computing / deep learning, starting from latest hardware, GPU Accelerated software development environment, application support, training and tutorials to nurture and satisfy needs of the end users.

This Supercomputer facility is established at Marwadi University with an aim to provide computational resource with advanced technologies to perform high-end computations for scientific, engineering and academic programmes to address and catalyze the research using modeling, simulation and data analysis etc.

### NOW THIS MEMORANDUM OF UNDERSTANDING

Witnesses as Under:

1. Objective of establishing the Supercomputer facility are:
  - A. Create a pool of skilled professionals for pursuing research and development in the area of High-Performance Computing (HPC) and promote the use of HPC systems and parallel programming in several application domain areas.
  - B. Creating employment opportunity for students / researchers for R&D organization and industry.
  - C. Disseminating advanced computing techniques useful in many research academic semester projects and Ph.D. thesis.
  - D. Introduction of HPC and Deep Learning as a subject in the academic/engineering the curriculum at UG/PG level.





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A single line of faint text, likely a separator or a specific heading.

A single line of faint text, possibly a date or reference number.

A single line of faint text, possibly a title or subject line.

A single line of faint text, possibly a name or identifier.

A block of faint text, possibly a paragraph or a list of items.

A larger block of faint text, possibly a main body of the document or a detailed list.

A block of faint text, possibly a concluding paragraph or a signature area.

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- E. Providing a base of Supercomputing expertise to develop interdisciplinary computational science and deep learning degree programs.
- F. Help professors and faculty members in developing funding proposals for High-Performance Computing(HPC) and Deep Learning (DL) research-based projects, providing not only a set of resources to list in proposals but also expertise on emerging issues that are of interest to funding agencies.
- G. Encouraging possibilities of various national and international labs for joint research in High-Performance Computing (HPC) and Deep Learning (DL) arena.

2. Programs and Activities to be prioritized:

1. Faculty and students across all academic/engineering disciplines shall be educated in computational science and deep learning techniques, and thereby positioning them for careers in cutting edge science and technology.
2. Faculty and Researchers who employ High-Performance Computing (HPC) and Deep Learning (DL) in their engineering courses shall be educated in software design methodologies that allow maximal exploitation of computing resources for complex problem-solving environments.
3. Faculty and students shall incorporate into their research codes the techniques of sound software design, coding, debugging, testing, maintenance, porting and performance evaluation.
4. Students shall be taught to act as consultants to application teams that use supercomputing and deep learning techniques by providing a pathway for disseminating knowledge.
5. Student researchers shall have opportunities to present ongoing projects to an audience of HPC and DL educated colleagues, in order to obtain feedback on improving their investigations.
6. Interactions with relevant stakeholders including industry, academia and students from other colleges and universities.
7. Faculty and researchers shall apply for and obtain funding for project proposals involving supercomputing researches.

3. Terms and Conditions:

1. Supercomputer Facility should be setup in a dedicated space of institution with air-conditioning for saving the acquisition and infrastructural cost.
2. The institute shall display a banner stating "Supercomputer Facility by Gujarat Council on Science and Technology (GUJCOST), Department of







Science and Technology, Govt of Gujarat" at the entrance and an appropriate entry sight of the institution, which is easily visible to the stakeholders.

3. Institute shall bear the maintenance and operational cost of the equipment/instrument, tools accessories, etc. that may fall outside the scope of warranty.
4. The Supercomputer operational will be considered to be functional from the date of installation by C-DAC team. If the institution is unable to start the program within six months of installation, the institute has to intimate GUJCOST office regarding the same and the approval shall ipso facto lapse.
5. The Param Shavak supercomputer shall be the property of the institute. However, it shall not be disposed without the permission of the GUJCOST.
6. The Supercomputer Facility should be utilized to develop at least ten (10) innovative project / product / process in a year.
7. CDAC/GUJCOST may conduct training programmes or workshops for the supercomputer facility users. Institute has to depute students and faculty members for necessary training as and when planned by CDAC/GUJCOST.
8. Each institute has to train at least 10 students of Post-graduate level or Ph.D. research scholar per year as per DST/GUJCOST/CDAC guideline. The details of trained students should be submitted yearly to GUJCOST office.
9. The timings of the Supercomputer Facility should be such that it allows aspirants to come at any time during the working hours of the host institution (Applicant) to use the facilities. During working hours, specific time periods may be defined and included in the curriculum of students to introduce the concept of the supercomputer facility.
10. Supercomputer Facilities should develop a network with industries, academia, research institution, civil society for knowledge sharing and mentoring support.
11. The Coordinator of the Supercomputer Facility would ensure adequate safety and maintenance of supercomputer along with records usage in a logbook on a regular basis. The coordinator has to submit a copy of logbook to GUJCOST in a six-monthly report. A CPU usage summary should be submitted along with the log book.
12. If, the coordinator leaves the institution, retires or goes on long leave, or absentia of coordinator for any other reason, the institute shall appoint another competent coordinator for the Supercomputer Facility and the details should be intimated to GUJCOST immediately.
13. In order to foster innovations amongst students using the Supercomputer Facility, the following activities may be conducted:
  - i. Monthly programs to teach and explain students about different





concepts – ranging from ideation, design, prototyping, networking to physical computing. Workshops on problem solving, designing and fabrication of products etc.

ii. Interactions with relevant stakeholders including industry, academia and students from other colleges and universities.

14. It is proposed to maximize the use of supercomputer. In this light, institute shall permit the use of supercomputer to Bonafide users (research work in other GUJCOST sponsored project or other projects of the institute or nearby institutes).

15. Operation of the Supercomputer Facility would be monitored on a suitable periodic basis by an Advisory Body comprising of following suggested members:

- a) The principal of the Institution/College – Chairman
- b) Project coordinator of the Supercomputer Facilities – Convener
- c) A representative from local industry / local community /young innovators / reputed academia/alumni – Three Members
- d) Advisor, GUJCOST or his/her representative from GUJCOST

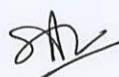
16. The advisory body will be constituted by the institution within one month of the date of installation and it shall be intimated to GUJCOST office within a week of the formation of the committee. It will meet at least twice or as and when required in a year and Project coordinator has to submit Minutes of the Meeting (MoM) and reports to GUJCOST.

17. All Research papers published or presented based on the application/usage of Supercomputer paper should write acknowledgment of support in name of GUJCOST and Department of Science and Technology, Govt of Gujarat. The project coordinator has to submit a copy of such published papers to GUJCOST office along with the six-monthly progress report.

18. GUJCOST officials may visit the Supercomputer facility at institute for monitoring as and when deemed fit.

19. GUJCOST shall continue to monitor the facility for 5 years from the date of installation. Post that period, the institute shall continue to send the progress reports, usage logs and advisory MoM to GUJCOST.

20. Any intellectual property activity for research outcome based on the research work done utilizing supercomputer facility established by GUJCOST should be brought to the notice of GUJCOST. GUJCOST reserves the right to decide on the IP ownership, Applicant rights and the share in IP on case-by-case basis after analysing the level of involvement of the supercomputer facility completely or partially funded by GUJCOST. The decision on IP and applicant rights and share shall be binding on the host institute.



1/2

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21. Investigators wishing to publish technical/ scientific papers based on the research work done utilizing the supercomputer are required to first check the patentability of the work through PIC of GUJCOST / as per IPR Policy of the institute prior to publishing the paper and intimate the patentability results to PIC – GUJCOST for patent search, filling and maintaining of patent application(s) in India.

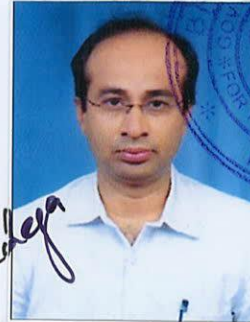
22. Institutions can also approach the Patent Facilitating Cell (PFC) set up by DST to assist them for patent search, filling and maintaining the patent application(s) in India and abroad. The institutions must approach through the funding institute PIC-GUJCOST to PFC.



1. Signed on 18<sup>th</sup> January, 2021 by

(Mr. Naresh Jadeja, Registrar, Marwadi University)

Marwadi University



2. Signed on 18<sup>th</sup> January, 2021 by

(Dr. Rajendrasinh Jadeja)

On behalf of Project Coordinator



3. Signed on 18<sup>th</sup> January, 2021 by

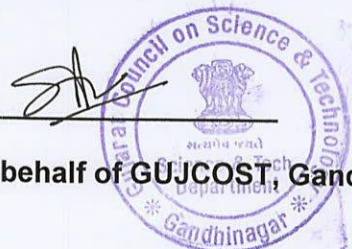
(Dr. Dinesh Kumar)

On behalf of Assistant Coordinator



4. Signed on 30th Jan by

On behalf of GUJCOST, Gandhinagar



1, Mr. Naresh D. Jadeja  
 2, Dr. Rajendrasinh Jadeja  
 Signed before me by  
 3, Dinesh Kumar

who is identified by Advocate  
 who is personally known to me on this  
 19<sup>th</sup> day of  
 January, 2021 at Rajkot

*B. Badani*

**BHARAT M. BADANI  
 NOTARY**

Page No. 10/21  
 Serial No. 216  
 Receipt No. 216  
 Date 19/1/2021

No: MU/NewGen/2020/8

Date: 22-Jan-2021

To,  
Dr Siddharth Shah  
Faculty of Technology  
Marwadi University

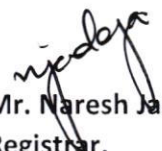
**Sub: Proposal on Prototype of Smart concrete using nano materials under NewGen IEDC grant policy**

Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)  
With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Prototype of Smart concrete using nano materials”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,00,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Siddharth Shah, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/15

Date: 15-Sep-2021

To,  
Mr Vivek Patel  
Faculty of Technology  
Marwadi University

**Sub: Proposal on Extending application of AR/VR to Engineering Education under NewGen IEDC grant policy**

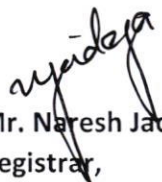
Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Extending application of AR/VR to Engineering Education”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,00,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Prof Vivek Patel, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship



No: MU/NewGen/2020/1

Date: 17-Jul-2019

To,  
Dr Amit Sata  
Faculty of Technology  
Marwadi University


**Sub: Proposal on Product-Manufacturing(Smart Lab) under NewGen IEDC grant policy**

Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)  
With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Product-Manufacturing(Smart Lab)”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,50,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Amit Sata, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/1

Date: 17-Jul-2019

To,  
Prof Dhaval Anadkat  
Faculty of Technology  
Marwadi University

**Sub: Proposal on Product-Manufacturing(Smart Lab) under NewGen IEDC grant policy**


Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Product-Manufacturing(Smart Lab)”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,50,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Prof Dhaval Anadkat, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/1

Date: 17-Jul-2019

To,  
Mr Pinal Kantesariya

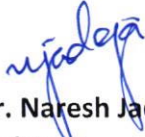
Sub: Proposal on Product-Manufacturing(Smart Lab) under NewGen IEDC grant policy

Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)  
With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled "**Product-Manufacturing(Smart Lab)**" proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,50,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Mr Pinal Kantesariya, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/2

Date: 17-Jul-2019

To,  
Dr Lalji Baldaniya  
Faculty of Pharmacy  
Marwadi University

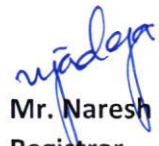
**Sub: Proposal on Product -Topical Spray for fast Relief from Menstrual Pain under NewGen IEDC grant policy**

Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)  
With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Product -Topical Spray for fast Relief from Menstrual Pain”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,50,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Lalji Baldaniya, Faculty of Pharmacy, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/3

Date: 17-Jul-2019

To,  
Dr Shobhit Patel  
Faculty of Technology  
Marwadi University

**Sub: Proposal on Solar Cell Development under NewGen IEDC grant policy**

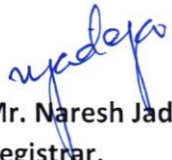
Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Solar Cell Development”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,50,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Shobhit Patel, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/4

Date: 21-Oct-2020

To,  
Dr Amit Sata  
Faculty of Technology  
Marwadi University

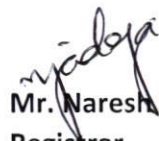
**Sub: Proposal on Intelligent Inspection Device for Metal casting under NewGen IEDC grant policy**

Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)  
With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Intelligent Inspection Device for Metal casting”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,50,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Amit Sata, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/5

Date: 21-Oct-2020

To,  
Dr Amit Sata  
Faculty of Technology  
Marwadi University

**Sub: Proposal on IoT Enabled Jewellery Casting Setup under NewGen IEDC grant policy**

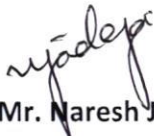
Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled “**IoT Enabled Jewellery Casting Setup**” proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,50,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Amit Sata, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/6

Date: 21-Oct-2020

To,  
Prof Chandrasinh Parmar  
Faculty of Technology  
Marwadi University

**Sub: Proposal on Smart Blind stick under NewGen IEDC grant policy**

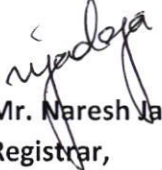
Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **"Smart Blind stick"** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,50,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Prof Chandrasinh Parmar, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship



No: MU/NewGen/2020/7

Date: 21-Oct-2020

To,  
Dr Ritesh Palkar  
Faculty of Science  
Marwadi University

**Sub: Proposal on Zeolite Synthesis under NewGen IEDC grant policy**

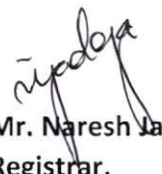
Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Zeolite Synthesis”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,50,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Ritesh Palkar, Faculty of Science, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/9

Date: 22-Jan-2021

To,  
Dr Ankur Bhogayata  
Faculty of Technology  
Marwadi University

**Sub: Proposal on sustainable cement products under NewGen IEDC grant policy**


Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled “**sustainable cement products**” proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,00,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Ankur Bhogayata, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/10

Date: 22-Jan-2021

To,  
Dr Siddharth Shah  
Faculty of Technology  
Marwadi University

**Sub: Proposal on Sustainable Geocell from Waste PET bottles under NewGen IEDC grant policy**

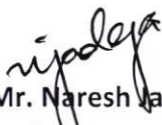
Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Sustainable Geocell from Waste PET bottles”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,00,000** during **2020-21** for the duration of one year.

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Thank you and best regards,

  
Mr. Naresh Vadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Siddharth Shah, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/11

Date: 22-Jan-2021

To,  
Dr Pinank Patel  
Faculty of Technology  
Marwadi University

**Sub: Proposal on Solar Powered Electric Vehicle under NewGen IEDC grant policy**

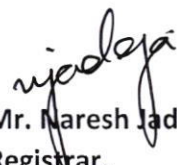
Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **"Solar Powered Electric Vehicle"** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,00,000** during **2020-21** for the duration of one year.

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Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Pinank Patel, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/11

Date: 22-Jan-2021

To,  
Dr Nikhil Chotai  
Faculty of Technology  
Marwadi University

**Sub: Proposal on Solar Powered Electric Vehicle under NewGen IEDC grant policy**

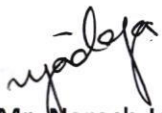
Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

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You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Nikhil Chotai, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/12

Date: 16-Feb-2021

To,  
Dr Siddharth Shah  
Faculty of Technology  
Marwadi University

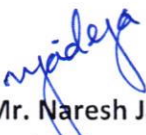
**Sub: Proposal on Development of Hydrophobic and antibacteria nano coated sanitary wares under NewGen IEDC grant policy**

Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)  
With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Development of Hydrophobic and antibacteria nano coated sanitary wares”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,00,000** during **2020-21** for the duration of one year.

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Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Siddharth Shah, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/13

Date: 16-Feb-2021

To,  
Dr Nikunj Rachchh  
Faculty of Technology  
Marwadi University

**Sub: Proposal on Development of Hybrid Composite Material using Industrial Waste by Additive Manufacturing under NewGen IEDC grant policy**

Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)  
With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Development of Hybrid Composite Material using Industrial Waste by Additive Manufacturing”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,00,000** during **2020-21** for the duration of one year.

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Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Nikunj Rachchh, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship

No: MU/NewGen/2020/14

Date: 15-Sep-2021

To,  
Dr R B Jadeja  
Faculty of Technology  
Marwadi University


**Sub: Proposal on Placement Prediction System with Machine Learning under NewGen IEDC grant policy**

Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)  
With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Placement Prediction System with Machine Learning”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,00,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr R B Jadeja, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship



No: MU/NewGen/2020/15

Date: 15-Sep-2021

To,  
Dr Amit Sata  
Faculty of Technology  
Marwadi University

**Sub: Proposal on Extending application of AR/VR to Engineering Education under NewGen IEDC grant policy**

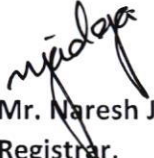
Dear Sir,

Greetings from Marwadi University Centre for Innovation, Incubation, and Research (MUIIR)

With reference to your proposal and subsequent presentation before the committee of NewGen IEDC at Marwadi University, we are pleased to inform you that innovative idea/project titled **“Extending application of AR/VR to Engineering Education”** proposed by your mentee, and has been approved in the Government of India initiative **NewGen IEDC** with a maximum limit of fund **Rs. 2,00,000** during **2020-21** for the duration of one year.

You must follow the purchase policy of NewGen IEDC for the procurement of items and submit the progress report to the MUIIR office from time to time.

Thank you and best regards,

  
Mr. Naresh Jadeja  
Registrar,  
Marwadi University



Copy to:

1. Dr Amit Sata, Faculty of Technology, Marwadi University
2. Dean – Research and Development
3. Associate Dean, Innovation & Entrepreneurship