

Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College of Engineering, Satara

Criterion 3 – Research, Innovation and Extension Key Indicator – 3.1 Resource Mobilizations for Research

3.1.1 Grants for research projects sponsored by government/non government sources such as industry, corporate houses, international bodies, endowment, chairs in the institution during the last five years (INR in Lakhs)

Sr. No.	Documentary Evidences / Sample Documents	Page No.
1	List of project and grant details	1-4
2	E-copies of the grant award letters for research project sponsored by the Government and non-Government.	5-241

Rayat Shikshan Sanstha's Karmaveer Bhaurao Patil College of Engineering, Satara

Grants for research projects sponsored by the government/non-government sources such as industry, corporate houses, international bodies, endowments, Chairs

Name of the Project/ Endowments, Chairs	Name of the Principal Investigator/Co-	Department of Principal Investigator	Year of Award	Amount Sanctioned	Duratio n of the	5 5 ,	Type (Government/non-
	investivator				project		Government)
		2017-2018	3	<u> </u>	ļ		
Impact Analysis of Jalayukt Shivar Abhiyan as per UMA guidelines	Dr.Anand Tapase	Civil Engineering	2017-2018	8000	1 year	Unnat Maharashtra Yojana (UMA) of CTARA, IITB,M	Government
Online Web Service Portal	Dr.Shabina S.G.	Computer Science & Engineering	2017-2018	190000	1 year	Director, IT Solution , Prakruti Sai Ayurvedic Center (O.P.D module), Satara	Non Government
Computer Vision Bill Board Monitoring	Prof. Ghatge D. D	Computer Science &	2017-2018	47000	1 year	Director, ACME Infovision Sys Pvt Ltd Satara	Non Government
Activity Monitoring	Pro. Rathod M. N.	Computer Science &	2017-2018	42000	1 year	Director, ACME Infovision Sys Pvt Ltd Satara	Non Government
Pigmy Collection android App Development	Prof. Dangat G.D	Computer Science &	2017-2018	120000	1 year	Director, Satara IT Solution Pvt Ltd, Satara	Non Government
Health Care By Prakurti Ayurvedic Centre	Prof. Dangat G.D	Computer Science & Engineering	2017-2018	110000	1 year	Director, IT Solution , Prakruti Sai Ayurvedic Center (O.P.D module), Satara	Non Government
Email System on ACME Padam	Prof. Rasal S. A	Computer Science & Engineering	2017-2018	43000	1 year	Director, ACME Infovision Sys Pvt Ltd Satara	Non Government
Nearby Technology	Prof. Rasal S. A	Computer Science & Engineering	2017-2018	46000	1 year	Director, ACME Infovision Sys Pvt Ltd Satara	Non Government
Automated Software Based System for Retail Cloth Stores	Prof. Ghatge D. D	Computer Science & Engineering	2017-2018	0	1 year	Mumbai Cheaps	Non Government
Web integration management System using powerbi with cloud computi	Prof. Dangat G.D	Computer Science & Engineering	2017-2018	0	1 year	Director,A M Hydro Care Satara	Non Government
LASER micrometer	Prof.R.J.Devi	Electronics Engineering	2017-2018	92150	1 year	Innovative Automation Products Pvt.Ltd., Satara	Non Government
Smart Virual Mirror	Dr.Aldar D.S.	Electronics Engineering	2017-2018	14114	1 year	DST And Texas Instruments Inc.India Innovative	Non Government
Real Time Guidance System For Blind people	Dr.Aldar D.S.	Electronics Engineering	2017-2018	14114	1 year	DST And Texas Instruments Inc.India Innovative	Non Government
Design And Manufacture Of CAR Parking Lift.	Dr. Mandave H.A.	Mechanical Engineering	2017-2018	85800	1 year	Spark Industries,Satara.	Non Government
Drilling And Deburring Attachment For Motor Fan	Dr. Mandave H.A.	Mechanical Engineering	2017-2018	5861	-	Supreme Plastics Pvt. Ltd. Satara.	Non Government
Pneumatic Pipe Bending Machine	Prof. Mahajan S.R.	Mechanical Engineering	2017-2018	56000	J	Jadhav Brothers Nele, Satara.	Non Government
Automatic Inoculation Dispenser Unit	Prof.Mahajan S.R.	Mechanical Engineering	2017-2018	63000	_	Mutha Group Of Foundries Pvt. Ltd. Satara	Non Government
Design & Manufacturing of Tool Holder For CNC E42	Prof. Mrs. Shinde M.Y.	Mechanical Engineering	2017-2018		1 year	Abhijat Equipment Pvt Ltd Satara	Non Government
Design And Manufacturing Of Fixtures	Prof. Mrs. Shinde M.Y.	Mechanical Engineering	2017-2018		1 year	Abhijat Equip Pvt. Ltd Satara	Non Government
Design And Manufacturing of Scissor Lift.	Prof. Patil S.S.	Mechanical Engineering	2017-2018	29600		Tanishque Enterprizes, Satara.	Non Government
Design and manufacturing of Oil Skimmer	Prof. Patil S.S.	Mechanical Engineering	2017-2018	13800	,	Ajinkyatara Sahkari Sakhar Karkhana,Shendre,Satara	Non Government
Multi spindle Drilling Machine	Prof. Pujari Ankush	Mechanical Engineering	2017-2018	10500	-	Shree Tool,Satara	Non Government
Design And Development Spring Manufacturing Machine	Prof. Dhumal N.U.	Mechanical Engineering	2017-2018	29317		Spayway Fittness Private Ltd Satara	Non Government
<u> </u>	Prof. Miss.Shivdas R.K	Mechanical Engineering	2017-2018	45947		Atharva Enterprise, Satara	Non Government
, ,	Prof. Ghatge D.A.	Mechanical Engineering	2017-2018	12400		Mutha Founders And Siddharth Industries Pvt.	Non Government
Design and Manufacturing of Dressing Attachment for grinding	Prof. Ghatge D.A.	Mechanical Engineering	2017-2018	15230		Mechanite Engineering Solution M21 Plant,Satara	Non Government
Design and development of Cotton Ginning machine	Prof. Jadhav P.L.	Mechanical Engineering	2017-2018	7500	1 year	Anuja Industries, Sadar Bazar Satara.	Non Government

ear Balaji Construction Satara car Cooper Corporation Pvt.Ltd. Satara Tirupati Arts Satara Bharat Engineering Satara Asmita Engineering Equipment Pvt. Ltd., J-54, M.I.D.C	Non Government Non Government Non Government Non Government
ear Tirupati Arts Satara Bharat Engineering Satara ear Asmita Engineering Equipment Pvt. Ltd., J-54, M.I.D.C	
ear Bharat Engineering Satara ear Asmita Engineering Equipment Pvt. Ltd., J-54, M.I.D.C	
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Diiosari, Pune-411020	_
ear Mutha Engineering Pvt. Ltd., M.I.D.C., Satara	Non-Government
ear Akshay Precision Components, Satara	Non-Government
	<u> </u>
ear Mayur Industries, M.I.D.C., Satara	Non Government
ear Director, We Plus technology, Satara	Non Government
ear Director, We Plus technology, Satara	Non Government
ear DST And Texas Instruments Inc.India Innovative	Non Government
ear DST And Texas Instruments Inc.India Innovative	Non Government
ear DST And Texas Instruments Inc.India Innovative	Non Government
ear DST And Texas Instruments Inc.India Innovative	Non Government
ear HIRA Buildcon, Satara	Non Government
ear HIRA Buildcon, Satara	Non Government
ear Savy fitness Pvt. Ltd. MIDC, Satara	Non Government
ear Kavitsu Transmission Pvt. Ltd. W-85 Addl. MIDC,	Non Government
ear Top Gear Transmissions Pvt. Ltd. M 71, Addl. MIDC,	Non Government
ear Crane Process Ind. India Ltd., MIDC, Satara	Non Government
ear Abhijat Ind. Pvt. Ltd. Satara	Non Government
ear J K Industries, Addl. MIDC, Satara	Non Government
ear Kavitsu Transmission Pvt. Ltd. W- 85 Addl. MIDC,	Non Government
ear Shree tools MIDC, Satara	Non Government
ear Mutha Engineering unit 3 MIDC, Satara	Non Government
	Non-Government
	Non-Government
	Non-Government
V 1 1	Non-Government
ear Sidddhi Industries, G-39 Old MIDC, Near Ganesh Chowk, Satara-415003	Non-Government
ear Shalgar Bolts, Satara	Non-Government
ear Karad Projects and Motors Ltd. Karad, Satara	Non-Government
ear Shalgar Equipments Pvt. Ltd. Satara	Non-Government
ear Spark Autometal Comp Pvt. LTd. Satara	Non-Government
L E	
<u> </u>	<u> </u>
ear Mayur Industries, M.I.D.C., Satara	Non Government
ear DST And Texas Instruments Inc.India Innovative	Non Government
ear DST And Texas Instruments Inc.India Innovative	Non Government
ear DST And Texas Instruments Inc.India Innovative	Non Government
ear DST And Texas Instruments Inc.India Innovative Challenge Design Contest	Non Government
ear DST And Texas Instruments Inc.India Innovative	Non Government
ear DST And Texas Instruments Inc.India Innovative	Non Government
	Bhosari, Pune-411026 ar Mutha Engineering Pvt. Ltd., M.I.D.C., Satara Akshay Precision Components, Satara ar Akshay Precision Components, Satara ar Director, We Plus technology, Satara ar Director, We Plus technology, Satara ar DST And Texas Instruments Inc.India Innovative ar HIRA Buildcon, Satara ar HIRA Buildcon, Satara ar Savy fitness Pvt. Ltd. MIDC, Satara ar Kavitsu Transmission Pvt. Ltd. W-85 Addl. MIDC, ar Top Gear Transmissions Pvt. Ltd. M71, Addl. MIDC, ar Abhijat Ind. Pvt. Ltd. Satara ar J K Industries, Addl. MIDC, Satara ar Kavitsu Transmission Pvt. Ltd. W-85 Addl. MIDC, ar Shree tools MIDC, Satara ar Mutha Engineering unit 3 MIDC, Satara ar Mutha Founders Pvt. Ltd. Satara ar Abhijat Equipments Pvt. Ltd. Satara ar Shivam Agro Engineering, A-10/3 Old MIDC, Near Ganesh Chowk, Satara-415003 ar Shalgar Bolts, Satara ar Karad Projects and Motors Ltd. Karad, Satara ar Shalgar Equipments Pvt. Ltd. Satara ar Shalgar Equipments Pvt. Ltd. Satara ar Shalgar Equipments Pvt. Ltd. Satara bran Spark Autometal Comp Pvt. Ltd. Satara ar Spark Autometal Comp Pvt. Ltd. Satara ar DST And Texas Instruments Inc.India Innovative ar DST And Texas Instruments Inc.India Innovative Challenge Design Contest ar DST And Texas Instruments Inc.India Innovative

Remote Crop Monitoring and Intruder Detection	Dr.Aldar D.S.	Electronics Engineering	2015-2016	0	1 year	John Deere Techno Champ 2015	Non Government
Seeder Blockage Detection	Dr.Aldar D.S.	Electronics Engineering	2015-2016	0	1 year	John Deere Techno Champ 2015	Non Government
Design and Implementation of User configurable Industrial HMI	Dr.Sangale S.M.	Electronics Engineering	2015-2016	16000	1 year	Renu Electronics Pvt. Limited, Pune	Non Government
Testbest for Hermatically sealed compressor	Prof. Devi R.J.	Electronics Engineering	2015-2016	16000	1 year	Emerson India Pvt. Limited, Satara	Non Government
Design and Implementation of Magnetic Sensor Based Pressure sensor	Dr.Aldar D.S.	Electronics Engineering	2015-2016	20000	1 year	National Aerospace Laboratories, Banglore	Non Government
Quick Reversible Tapping Attachment	Prof.Jadhav V.D.	Mechanical Engineering	2015-2016	10350	1 year	Nisaka Engg.Pvt.Ltd, Satara	Non Government
Castor Wheel Endurance Testing Ring	Prof.Jadhav V.D.	Mechanical Engineering	2015-2016	319035	1 year	Speciality Urethanes Pvt.Ltd, Satara	Non Government
Design & Development Non IBR Vertical fire tube Boiler	Prof. Ghatge D.A.	Mechanical Engineering	2015-2016	120300	1 year	Yogesh Chemical Products, Satara	Non Government
Design & Development of Multi Spindle Drilling Head Attachment	Prof. Jadhav P.L.	Mechanical Engineering	2015-2016	8525	1 year	Rajas Engineering, Satara	Non Government
Chain Conveyor	Prof.Degaonkar A.B.	Mechanical Engineering	2015-2016	6500	1 year	Balaji Construction Machine and Spares, Satara	Non Government
Load & Torque Testing of Gear Boxes	Prof. Mrs. Shinde M.Y.	Mechanical Engineering	2015-2016	15000	1 year	Beacon Gear Transmission,Satara	Non Government
Egg Laying type concrete block making attachment	Prof. Patil S.S.	Mechanical Engineering	2015-2016	7530	1 year	Balaji Construction Machine and Spares, Satara	Non Government
Brick Crushing Machine	Prof. Patil S.S.	Mechanical Engineering	2015-2016	19700	1 year	Balaji Construction Machine and Spares, Satara	Non Government
Design of Hydraulic Power Plant	Prof. Jadhav P.L.	Mechanical Engineering	2015-2016	34185	1 year	Abhijat Equipment Pvt.Ltd, Satara	Non Government
Gear Roller Tester	Prof. Mrs. Shinde M.Y.	Mechanical Engineering	2015-2016	76839	1 year	Top Gear Transmission Pvt. Ltd. Satara	Non Government
Analysis & Efficiency improvement in Ethanol Plant	Prof. Ghatge D.A.	Mechanical Engineering	2015-2016	23500		Yashraj Ethanol Processing Pvt. Ltd. Limb Satara	Non Government
Design & Development of Solar Tracking System	Prof. Ghatge D.A.	Mechanical Engineering	2015-2016	33827	1 year	Innova Engineering, Satara	Non Government
Rolling Cutter attachment Blisters Cutting	Prof. Jadhav P.L.	Mechanical Engineering	2015-2016		1 year	Plastic & Packing Solution. Satara	Non Government
Design & Manufacturing of Truck Mounted Containers Side Loader	Dr. Mandave H.A.	Mechanical Engineering	2015-2016	25000	1 year	Cyclo Transmission,Ltd,Satara	Non Government
Design & manufacturing of Multispindle Drilling Attachment	Prof. Shaikh A. M.	Production Engineering	2015-2016	11290	1 year	Rajas Engineering, M-42, Addl. MIDC, Satara-415004	Non-Government
6-4-4-5 Fly Ash Brick Making Machine	Prof. Sabnis V. B.	Production Engineering	2015-2016	502386	1 year	Balaji Construction Machine & Spares, Satara	Non-Government
Indexing Head Fixture	Prof. Sabnis V. B.	Production Engineering	2015-2016	7110	1 year	Kavade Engineering Works, Satara	Non-Government
			Total	1375261			
		2014-201		'			<u>'</u>
Demonstration of Multi Process Machine	Prof.V.D.Jadhav	Mechanical Engineering	2014-2015	7000	1 year	S.P.Engg.,Satara	Non Government
Automatic Parallel Dressing Attachment	Prof.Mrs.M.Y.Shinde	Mechanical Engineering	2014-2015	19573	1 year	Maharashtra Scooters Limited, Satara	Non Government
Performance Analysis of Induced draft Counter flow Cooling Tower	Prof.D.A.Ghatge	Mechanical Engineering	2014-2015	10500	1 year	Kisanveer Sahakari Sakhar Karkhana Ltd.Bhuinj, Satara	Non Government
Design & Development of Semi Automatic Hydro Ishtica Making	Prof.Mrs.M.Y.Shinde	Mechanical Engineering	2014-2015	118380	1 year	Svidha Hi-Tech,Pvt.Ltd, Satara	Non Government
Design & Manufacturing of Rake angle Grinding Machine	Prof.V.D.Jadhav	Mechanical Engineering	2014-2015	23000	1 year	Nisaka Engg. Pvt.Ltd, Satara	Non Government
Performance Analysis of Efficiency Improvement in Thermal	Prof.D.A.Ghatge	Mechanical Engineering	2014-2015	4000	1 year	Kisanveer Sahakari Sakhar Karkhana Ltd.Bhuinj, Satara	Non Government
Semi-Automatic Riveting Machine	Prof. Malvade N. V.	Production Engineering	2014-2015	61000	1 year	Karad Projects and Motors Ltd, Karad, Satara	Non-Government
Electricity Generation by using moving vehicles	Prof. Shaikh A. M.	Production Engineering	2014-2015	9320	1 year	Shalgar Fabicators, Plot No-G14, Old MIDC, Satara.	Non-Government
Design & Modification in Sheet Cutting Machine	Prof. Shaikh A. M.	Production Engineering	2014-2015	15024	1 year	EMC Electro Mach Composites, 51/3C, Opp. Sangamnagar, Mahuli Road, Satara	Non-Government
			Total	267797			
		2013-201	4				
Hydraulic Robot Arm Controlled By Human Arm	Dr.Aldar D.S.	Electronics Engineering	2013-2014	14,114	1 year	DST And Texas Instruments Inc.India Innovative	Non Government
Automatic Feeding and Lubrication flow control of Sand making	Dr.Aldar D.S.	Electronics Engineering	2013-2014	100000	1 year	Akashganga Construction Machines Private Limited,	Non Government
Calibration of Temperature module	Dr Sangale S.M.	Electronics Engineering	2013-2014	12000	1 year	Renu Electronics Pvt. Limited, Pune	Non Government
Kinetic Energy Recovery System in Bicycle	Prof.V.D.Jadhav	Mechanical Engineering	2013-2014	10500	1 year	Maharashtra Scooters Pvt. Ltd. Satara	Non Government
Design & Development of Pneumatic Bar Cutting Machine	Prof.D.A.Ghatge	Mechanical Engineering	2013-2014	21419	1 year	Gholap Engineering Works, Karanje,Satara	Non Government
Performace of the diesel Engine	Prof. Degaonkar A. B.	Mechanical Engineering	2013-2014	9800	1 year	Indian Biodiesel Corporation, Baramati	Non Government
Design & Manufacturing of Electric Bicycle	Prof.V.D.Jadhav	Mechanical Engineering	2013-2014	25000	1 year	Beacon Gear Transmission Pvt. Ltd. Satara	Non Government
Engine performance of CF Engine using waste vegetable oil and	Prof. Shinde M.Y.	Mechanical Engineering	2013-2014	10000		Indian Biodiesel Corporation, Baramati	Non Government
Chicken Oil and Its Blends					<i>J</i>	,,	
Design & Manufacturing of C-Ring (Hog Ring Machine)	Prof.D.A.Ghatge	Mechanical Engineering	2013-2014	76017	1 year	Raj Laxmi Industries, MIDC, Satara	Non Government
Universal Dividing head for cutter and Tool Grinder	Prof. Malvade N. V.	Production Engineering	2013-2014		1 year	Rhishi Tools Additional MIDC, Satara	Non-Government
		sauction Engineering		0,23	<i>J</i>		Jii Go , criminent

Implementation of Lean Principles using KANBAN System	Prof. Malvade N. V.	Production Engineering	2013-2014	0	1 year	Emerson Climate Technologies Atit, Satara	Non-Government
Design & manufacturing of Clutch & Brake Mechanism for Double	Prof. Shaikh A. M.	Production Engineering	2013-2014	209500	1 year	Oracle Press comps & Engg. Pvt. Ltd B-51, Old MIDC,	Non-Government
Design & manufacturing of Hydraulic press m/c for plate straightening	Prof. Shaikh A. M.	Production Engineering	2013-2014	171841	1 year	L 61/2, Balaji constructions, Add. MIDC, Satara.	Non-Government
Mechanical Scissor lifter	Prof. Shaikh A. M.	Production Engineering	2013-2014	13881	1 year	Rajas Engineering, M-42, Addl. MIDC, Satara-415004	Non-Government
High Speed High Torque Bicycle operated Material Handling Trolley	Prof. Sabnis V. B.	Production Engineering	2013-2014	20000	1 year	Shivdharshan Industries, Kodoli Satara	Non-Government
Design & Manufacturing of Worm & Worm Wheel Tester	Prof. Sabnis V. B.	Production Engineering	2013-2014	30000	1 year	Abhijat Equipments Pvt. Ltd. Satara	Non-Government
Design & Manufacturing of Multipurpose Pneumatic Punching Machie	Prof. Malvade N. V.	Production Engineering	2013-2014	14250	1 year	Manish Industries, Pune	Non-Government
Design & Manufacturing of Automated Pneumatic Banjo Bolt Marking	Prof. Wagh N. M.	Production Engineering	2013-2014	10800	1 year	Abhijat Engineers, Satara	Non-Government
Coolant Filtration unit for Cylindrical Grinding Machine	Prof. Pisal A. B.	Production Engineering	2013-2014	40000	1 year	Abhijat Equipments Pvt. Ltd. Satara	Non-Government
			Total	795847			

SBI

Date

: 15 May 2018

Account Number

: 00000010108415068

Description

CA-GEN-PUB-IND-NONRURAL-INR

Name

KBP COLLEGE OF ENGG SATARA

Currency

INR

Corporate Address

SADAR BAZAR SATARA

SATARA

MAHARASHTRA-415001

Branch

: SATARA ADB(01809)

Rate of Interest (% p.a.)

16.7%

IFS Code

: SBIN0001809

Book Balance

: 753522.89

Available Balance

753522.89

Hold Value

MOD Balance

0.00

0.00

Uncleared Amount

: 0.00

Balance as on 23 Apr 2018 : 8.92,480,43

Account Statement from 23 Apr 2018 to 23 Apr 2018.

	 Description	Ref No./Cheque No.	Branch Code	Debit	Credit	Batance
23/04/2016 2	DESCRIPTION AND ADDRESS OF THE PERSON	TRANSFER FROM 4898944162092	1809		8.000.00	9 00 480,43



Money Sent

You have successfully sent ₹8000.00 to KBP COLLEGE OF ENGG.

Transaction Hit:

811314027472

23 Apr 2018 14:41



VIEW DETAILS

GO TO HOME



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Kbp College Of...

₹8000.00

DETAILS OF TRANSACTION.

TRANSACTION ID 811314027472

23 April 2018

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14:41:46

REMARKS

JSA workshop...field visit support

money

The first of the establishment for the state of the state

RAISE CONCERN

CALL BANK

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https://mail.google.com/mail/u/0/?ui=2&ik=76d0e9f94f&jsver=GAFHaMvshdw.en.&cbl=gmail_fe_180506.06_p7&view=pt&msg=162f1ce9c04eabc7&q=prajakta.tds



Anand Tapase <tapaseanand@gmail.com>

Fwd: JSA project progress

shubham linge <shubhamlinge500@gmail.com> To: tapaseanand@gmail.com

Thu, Mar 29, 2018 at 4:19 PM

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

From: shubham linge <shubhamlinge500@gmail.com>

Date: Thu, Mar 29, 2018, 12:25 PM Subject: Re: JSA project progress To: <Anandtapase@gmail.com>

On Wed, Mar 28, 2018, 7:16 PM prajakta chitale <prajakta.tdsc@gmail.com> wrote: Respected sir,

A workshop held at Amravati on 4th-5th Feb 2018 for JSA assessment works. As a part of training, UMA colleges have been doing the assessment of 3-4 villages in the allotted taluka.

Kindly share the progress of assessment of JSA works as a part of the workshop

- Received documents for selected villages(JSA plan, estimates, expenditure report, crop sowing report, get no.
 wise list of intervention, list of villages selection criteria etc)
- 2.Project status- doc procurement/field visit preparation/field visit/Report writing/Report submission 3.When will you submit the final reports?

Also, send me bank details (cancelled cheque) of your college to transfer field support money Rs. 8000. After that, you need to submit utilization certificate of spent money.

let me know if you have any doubt.

Thanks & regards, Prajakta Chitale TDSC, IIT Bombay

ना क , मृदमं, नयशि, पृस्यमा कारांजा, मृद २, १५ में २०१८ भृद समारण व पाणनाट सत्र व्यवस्थापन कृषि आपूक्तानय, महाराष्ट्र राज्य, पूर्ण १ विनाक १ प्रकार २०१८

प्रांत

विभागीय कृषि सहमंचालक, ठाणं कोल्हापुर पूर्णं औरगाबाद/ नाणिक अमरावती नागपुर

विषय । अन्यपूर्णन विषयम् आभियान स्टब्स्स्य स्टब्स्स्य स्टब्स्स्य स्थानम् । अदर्थ - १) ज्ञापन व विस्तात २०१० प्रात्त १०१४ । स्थान १ वस्त वि २९०१० (५००)

- मामोण क्षत्र प्रकारक विकास प्रकार नाम है। ३० सम्मार २०० स प्रव
- अप्रमानिक प्रथ के विमाध नेवर के प्रकार करने के मुंबई है। यह अनवाम स्वपृद्ध

उपराजन विषयो कटाविषयान यत हो, उत्तन महाराष्ट्र आंभवानाच्या सरकाराने अन्यवन विधार अभियानाताल कामाचे मुख्यमधानाताल राज्यस्तरीय कार्यशाहित हि, ४ फेब्रुवारी ते ५ फेब्रुवारी २०१८ राजा ग्रामीण स्व प्राथ्योगक विकास अकत्य यांचमाफेत प्रो. राम मंग्रे इन्ट्रीट्यूट ऑफ टेक्नोलॉजी अंन्ह रिसर्घ अमरावती येथे आवोजित करण्यात यणार आहे पुल्यमापनायांची तानुकानिताम प्रायांची निवाद करून कर्यांचानाव त्यार करण्यात आलेल्या मुल्यमापन प्रवर्णानुसार त्या गांचाचे मुल्यमापन करण्यात वणार आहे. मुल्यमापनाच कार्य कार्यशाहित सहभागी हाणा या सीभयांचको प्रायांचानावामाफेत करण्यात वणार आहे. लागाही सालांख महाराज माहीशी आवश्यक आहे.

- २) महाविद्यालयाक्ष्यून जलपूक्त शिवार अभियानातील कामाच पृत्यमापन करण्यात प्रणार असून संदर्भाप पत्र कर २ अन्वयं महाविद्यालयांन्याय लालुकराची वाली (Attachment No. 1) लयार करण्यात आणी आहे महरह यही आपल्या स्तराव्या लागमुन आँतम करण्यात याची लानपुक्त शिवार व्यापनाच्या कामाकरोता झालल्या ख्वांच्या निकपाया विचार करून तालुकर्गनहार गावांची गादी विचारोंच कृष्य श्रीवक्षा पानी तपार करावों
- २) महाविद्यालयांना प्रत्यपात्रवाला कामासाती आवश्यक असातत्या कागरपात्र्यो याहो उपराक्त संदर्भाय पत्र क. २ मध्ये महप्रवालील विवरणपत्र कमांक २ (Atlachment No. 2) पच्य नमृद करण्यात आले असून सदरह कागरपत्र उपनब्ध करण रणावाधन जिला य तालका स्तरावरील ऑफका-पांचे महाविद्यालयान प्रतिकालयान महप्रात् करण आवश्यक ग्रहील

या सदर्भात आपन्या सतरावरून मृत्यना निर्माणत करण्यात वास्त्रात हो विनंती सामन - अदर्भाय पत्र (१ ते ३)

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(Attachment No. 1 & 2)

कृषि उपसंवालक (मृद-२) मृद संधारण व पाणलाट क्षत्र व्यवस्थापन कृषि आवक्तालय, महाराष्ट्र राज्य, पण

प्रत - वसल प्रधापमाण ताल्काळ कापनाय सतवा.

जिला अधिकार कृषि आधकारों।

रायम्डः कोल्लापुरः सामलीः सालापुरः पूणः तारंगायाः भूळः सातारः असमहनगरः असरावतीः स्लागरं वाशियः वारमुरः चवतमाळः बुलदाणा

२) तालका कृषि अधिकारी

कति, बोल्सापुर,कवटे महावाळ (पेदरपुर (पन्दान्ता भार (गंगपुर तासमाव) भूने (ज्ञाराखाः) मानारा स्मामनेर जोदगाव खोदेश्वर हातकणाल राजापुर (दुल्ताबाद) पुरदर, याजिम (इसरेड) आमरावताः वयतमाळ खामगाव

ं याना गूरिवत करण्यात येत की. Attachment No. 1 अन्यय आपने तालुक्यास मृत्यमापनाकरोता निवदान्यात आलेल्या संस्थार Attachment No. 2 प्रमाण काग्रदपक्षको पूर्वता करावी व मृत्यमापनाकरोताः संबोधत संस्थास प्रपूर्ण सहकार्य करावे

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प्रामीण क्षेत्रों के लिए मौद्योगिकी विकल्प केन्त्र भारतीय प्रौद्योगिकी संस्थान मुंबई पर्व, नुंबई-400 076, भारत

Centre for Technology Alternatives for Rural Areas (CTARA)

Indian Institute of Technology Bombay Powal, Mumbal 400 076, India

To. Shri Eknath Dawale, IAS, Secretary, Department of Soil and Water Conservation Madam Cama Road, Nariman Point, Churchgate, Mumbai, Maharashtra 400032

(+91-22) 2576 7870 (+91-22) 2576 7871 FAR (+91-27) 2572 3480

30th December 2017

Subject: JSA Assesment Workshop: Request to issue suitable instructions to field offices in order to facilitate procurement of JSA related documents by UMA colleges.

Dear Shri Dawale,

Greetings from CTARA, IIT-B.

As discussed earlier, a Jalyukt Shivar Abhiyan (JSA) Assessment workshop is scheduled to be held at Prof.Ram Meghe Institute of Technology & Research, Badnera, Amravati on 4th-5th February 2018. As a part of the training programme, the colleges will be required to send two nodal professors and two students to the workshop. These colleges will be assigned 5-6 villages in a nearby taluka, out of which colleges have to finalize 2-4 villages and will undertake assessment of JSA works in the villages.

- 1. A list of colleges and assigned talukas is attached for your review (please refer attachment-1). Let us know if there are any changes. Further, we request the SDAO to prepare a representative list of 5-6 villages in each taluka having median expenditure between Rs. 0.75 to 1 crores. These will be used by the colleges for their field work.
- 2. For each village, colleges will approach the SDAO and the TAO for village plan and other documents. Some of these will be needed for the workshop and others at the time of the assessments. A list of these documents is attached. (please refer attachment-2). The concerned officers may be requested to provide these documents.

I also request the cooperation, support and guidance from field officers to the faculty and students of colleges during their field-work. Assessment reports of the villages will be submitted to department for your consideration.

Thank you and regards,

Milind Sohoni

Professor, CSE and CTARA

Chairperson, UMA Advisory Committee

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College of	Copur Dier	Lion Aonay Bhadlikas	Dhutana
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	Manarashtra Ind	la abhay.bhadlikar@gmail.com	Dhule
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Institute of	Panhal Panhal	Dr. Dhanraj Patil, 888885080	
Engineering &	Panhala, Dist	920000000	I. Shirala, Kolhapur
Technology	Nothanur	0200389001	
	Maharashtra	dmpatil@tkietwarana.org,	
Karmaveer Bhaur	India - 416113	patil.dhanaraj@gmail.com	
Paril S Bhaur	Camp Area, Sada		Total Carlo
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Engineering	Bazar, Satara,	nkpatil1@hotmail.com	- Latura,
	Maharashtra, India	a land to the land to the	Satara
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College	Near Pune-Nashik	Dr. V. D	
College of	Highway, Dist.	or the ware tidure.	Sangamner,
Engineering	Ahmednagar,	9850683641,	Ahmednagar
	Sanuarinagal,	hod.mech@avcoe.org	- Amileunagar
	Sangamner,		
	Maharashtra, India		
Prof. Ram Meghe	- 422608		
Inchies Megne	Buott Dati	Dr NW Kale 042204 man	
Institute of	Road, Badnera,	Dr. N.W. Kale, 9422917672,	Nandgaon
Technology &	Amravati,	principal@mitra.ac.in	Khandeshwar,
Research	Maharashtra, India		Amravati
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DY Patil College of			
Engineering &		Prof. Abhijeet Ghute-Patil,	Hatkanan
Tachnolas	Bavada, Tal.	/420911117,9765597999	Hatkanangale,
Technology	Karveer,	abhijeetpaatil699@gmail.com	Kolhapur
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Technology	Bombay - Goa	Prof. Snehal Gujarathi,	Rajapur, Ratnagiri
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Government	The state of the s	Dr.P.M. Day	E PROPERTY OF
College of	Railway Station	Dr.R.M. Damgir, 9822115626,	Khuldabad,
	Road, Aurangabad,	rmdamgir@rediffmail.com	Aurangabad
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College of	Wellesley Road,	Dr. S.S. Bhosale, 020-	Durand P
Ingineering Pune	Shivajinagar, Pune.	25507067,	Purandar, Pune
B. uik		had civil O	
	Maharashtra,	hod_civil@coep.ac.in	
	India- 411005		

उन्नत महाराष्ट्र अभियान अभियांत्रिकी महाविद्यालये तसेच तंत्रनिकेतने व अन्य शैक्षणिक संशोधन संस्थामधील विद्यार्थ्यांना राज्याच्या विकासात सहभागी करून घेण्याची योजना...

महाराष्ट्र शासन उच्च व तंत्रशिक्षण विभाग,

शासन निर्णय क्रमांक : घोरण ३०१९/(४५/१६)/तांशि-२,

मंत्रालय विस्तार भवन, मुंबई-४०० ०३२

दिनांक : ५ जुलै, २०१७

संदर्भ :- १. शासन निर्णय क्रमांक : बैठक ३६११/(५६/१५)/तांशि-२,दिनांक१३/०१/२०१६ २.शासन परिपत्रक क्र.डीएपी-१०१६/प्र.क्र.८६/का.१४८१ दिनांक ७/४/२०१६ ३. शासन निर्णय क्रमांक : घोरण ३०११/(४५/१६)/तांशि-२,दिनांक१५/६/२०१६ ४.शासन शुध्दीपत्रक क्रमांक: घोरण ३०११/(४५/१६)/तांशि-२, दिनांक१८/१०/२०१६

प्रस्तावना -

उन्नत महाराष्ट्र अभियान तसेच उन्नत भारत अभियान ही राज्यातील अभियांत्रिकी महाविद्यालय तसेच तंत्रिनकेतन व अन्य शैक्षणिक व संशोधन संस्थांमधील विद्यार्थांना राज्याच्या विकासात सहभागी करुन घेण्याची योजना अनुक्रमे संदर्भाधिन क्रमांक १ येथील दि. १३ जानेवारी, २०१६ व संदर्भाधिन क्रमांक ३ येथील दि.१५/६/२०१६ च्या शासन निर्णयानुसार कार्यान्वित करण्यात आली आहे. तसेच संदर्भाधिन क्रमांक २ येथील दिनांक ७/४/२०१६ च्या शासन परिपत्रकान्वये अभियानाकरीता निधी उपलब्धतेच्या अनुषंगाने नियोजन विभागाने सूचना निर्गमित केल्या आहेत. दि. १३ जानेवारी, २०१६ च्या शासन निर्णयात नमूद केल्यानुसार सदरच्या अभियानाच्या सर्वोच्च पातळीवर सल्लागार समिती आहे. समितीच्या कार्यकक्षेत इतर बार्बीसोबत विविध शैक्षणिक संस्थांचा सहभाग आवश्यकतेनुसार उपलब्ध करुन देणे, हि बाब नमूद केलेली आहे. तसेच शासन निर्णयात अभियानात सहभागी संस्थां व्यतिरिक्त इतर इच्छूक उच्च शिक्षण संस्थांना यात सहभागी होण्याची तरतूद आहे. यासाठी अभियानाअंतर्गत सल्लागार समितीने निश्चित केलेल्या निकषानुसार व प्रादेशिक गरजानुसार संस्थांची वेळोवेळी निवड करण्यात येईल, अशी तरतूद करण्यात आलेली आहे.

या संदर्भात अध्यक्ष, सल्लागार समिती, उन्नत महाराष्ट्र अभियान यांनी सूचित केल्यानुसार अभियानाची व्याप्ती वाढविण्यासाठी काही संस्थांचा सहभाग करुन घेण्याचे प्रस्तावित होते. यासाठी नोव्हेंबर, २०१६ मध्ये राज्यातील विविध संस्थांना ई-मेल द्वारे सूचित करुन अर्ज मागविण्यात आले. तसेच, अभियानाबाबत मार्गदर्शक कार्यशाळा देखील घेण्यात आली. तद्नंतर CTARA, IIT Bombay येथील चमूने राज्यातील इच्छूक संस्थांची प्रत्यक्ष पाहणी करुन व निश्चित केलेल्या निकषांनुसार तपासणी करुन १२ संस्थांची निवड केली होती. या १२ संस्था, त्यांची पात्रता, निवडीचे निकष या अनुषंगाने उन्नत महाराष्ट्र अभियान सल्लागार समितीच्या दि. २४ मे २०१७ च्या बैठकीत सादरीकरण करण्यात आले. सल्लागार समितीच्या दिनांक २४ मे, २०१७ च्या बैठकीत ठरल्यानुसार या १२ संस्थांना मूळ सहमागी संस्था समवेत उन्नत महाराष्ट्र अभियानात सहभागी करुन घेण्याचे ठरविण्यात आले आहे. त्यानुसार संदर्भाधिन क्रमांक ३ व ४ येथील शासन निर्णय व शासन शुध्दीपत्रकात नमूद संस्थांव्यतिरिक्त उक्त नमूद १२ संस्थांना देखील अभियानात सहभागी करुन घेण्याचा प्रस्ताव संचालक, तंत्रशिक्षण संचालनालय, महाराष्ट्र राज्य यांनी शासनास सादर केला होता.

प्रस्तुत प्रकरणी उन्नत महाराष्ट्र अभियानाकरीता गठित केलेल्या राज्य सल्लागार समन्वय समितीच्या दिनांक २४ मे, २०१७ च्या बैठिकत घेतलेल्या निर्णयानुसार उन्नत महाराष्ट्र अभियानाकरीता निश्चित केलेले जिल्हे व शैक्षणिक संस्था यात सुधारणा करण्याची बाब शासनाच्या विचाराधीन होती.

शासन निर्णय-

उन्नत महाराष्ट्र अभियानाकरीता संदर्भ क्रमांक १ येथील दिनांक १३/१/२०१६ च्या शासन निर्णयानुसार गठित केलेल्या राज्य सल्लागार समन्वय समितीच्या दिनांक २४ मे, २०१७ रोजीच्या बैठिकत १२ शैक्षणिक संस्थांना उन्नत महाराष्ट्र अभियानात समाविष्ट करण्याचा निर्णय घेतला आहे. उन्नत महाराष्ट्र अभियानाच्या राज्य सल्लागार समन्वय समितीने घेतलेल्या निर्णयानुसार उन्नत महाराष्ट्र अभियानाकरीता निश्चित केलेले जिल्हे व शैक्षणिक संस्था या करीता संदर्भाधिन शासन निर्णय व शासन शुध्दीपत्रकाशिवाय पुढिल १२ संस्थांचा समावेश करण्यात येत आहे. सदरच्या १२ संस्थांकरीता संदर्भाधिन क्रमांक १,२ व ३ येथील शासन निर्णय/ शासन परिपन्नकातील तरतुदी लागु राहतील.

अ.क्र.	जिल्हा	समन्वयक संस्था
9	कोल्हापूर	तात्यासाहेब कोरे इस्टिटयुट ऑफ इंजिनियरिंग ॲन्ड टेक्नॉलॉजी, वारणानगर
२	कोल्हापूर	डी. वाय. पाटील कॉलेज ऑफ इंजिनियरिंग ॲन्ड टेक्नॉलॉजी, कोल्हापूर
3	कोल्हापूर	कोल्हापूर इस्टिटयुट ऑफ टेक्नॉलॉजी कॉलेज ऑफ इंजिनियरिंग, कोल्हापूर
R	औरंगाबाद	ग्रामोद्योगिक शिक्षण मंडळाचे महाराष्ट्र इस्टिटयुट ऑफ टेक्नॉलॉजी, औरंगाबाद
4	रत्नागिरी	घरडा फाऊंडेशन घरडा इस्टिटयुट ऑफ टेक्नॉलॉजी, खेड, रत्नागिरी.

पृष्ठ ३ पंकी २

अ.क्र.	जिल्हा	समन्वयक संस्था
ξ	अहमदनगर	अमृतवाहिनी शेती आणि शिक्षण विकास संस्था अमृतवाहिनी कालेज ऑफ इंजिनियरिंग, संगमनेर.
(9	सांगली	शेतकरी शिक्षण मंडळाचे पदश्री वसंतरावदादा पाटील इस्टिटयुट ऑफ टेक्नॉलॉजी, बुधगांव, सांगली.
4	अमरावती	प्रो. राम मेघे इस्टिटयुट ऑफ टेक्नालाजी ॲन्ड रिसर्च, अमरावती.
9	सातारा	रयत शिक्षण संस्थेचे कर्मविर भाऊराव पाटील कॉलेज ऑफ इंजिनियरिंग, सातारा
90	धुळे	श्री शिवाजी विद्या प्रसारक संस्थेचे स्व. बापुसाहेब शिवाजीराव देवरे कॉलेज ऑफ इंजिनियरिंग, धुळ
99	सोलापूर	वालचंद इस्टिटयुट ऑफ टेक्नॉलॉजी, सोलापूर
25	सोलापूर	एसव्हीईआरआय चे कॉलेज ऑफ इंजिनियरिंग, पंढरपूर.

सदर शासन निर्णय महाराष्ट्र शासनाच्या www.mainarasinira.gov.in या संकेतस्थळावर उपलब्ध करण्यात आला असून त्याचा संकेतांक २०१७०७०५१५२०४४१३०८ असा आहे. हा आदेश डिजीटल स्वाक्षरीने साक्षांकित करून काढण्यात येत आहे.

महाराष्ट्राचे राज्यपाल यांच्या आदेशानुसार व नावाने.

Prakash Bhaskarrao Avhad

Digitally signed by Preside Rhedianto Antiad DN 048, on-Government Of Maharashna, our righer and Technical Department, paredCartes 431912, on-Maharashna,

Bhaskarrao Avhad

(प्रकाश भा. आव्हाड)

कार्यारान अधिकारी, महाराष्ट्र शासन

प्रत:

- १. मा. राज्यपाल यांचे सचिव, राजभवन, मुंबई
- २. मा. मुख्यमंत्री यांचे प्रधान सचिव, मंत्रालय, मुंबई-४०० ०३२
- ३. मा. नंत्री (उच्च व तंत्र शिक्षण) / मा. राज्यनंत्री (उच्च व तंत्र शिक्षण), नंत्रालय, मुंबई
- ४. मा. सर्व मंत्री / सर्व मा. राज्यमंत्री, मंत्रालय, मुंबई-४०० ०३२
- ५. मा.विरोधी पक्ष नेता, विधान परिषद/ विधान सभा, विधान भवन, मुंबई.
- ६. सर्व अपर मुख्य सचिव / प्रधान सचिव / सचिव, मंत्रालय, मुंबई-४०० ०३२
- जिल्हाधिकारी, कोल्हापूर, सातारा, सांगली, सोलापूर, अहमदनगर, पुळे, औरंगाबाद, रत्नागिरी, अमरावती
- ८. सर्व सहसचिव / उपसचिव, उच्च व तंत्रशिक्षण विभाग, मंत्रालय, मुंबई-३२
- संचालक, तंत्रशिक्षण संचालनालय / सर्व सहसंचालक, तंत्रशिक्षण विभागीय कार्यालये
- १०.अवर सचिव, विधानमंडळ सचिवालय, विधानभवन, मुंबई-३२
- ११. संचालक, माहिती व जनसंपर्क संचालनालय, मंत्रालय, मुंबई-३२
- १२.निवड नस्ती-तां.शि.-२

पृष्ठ ३ पैकी ३



SATARA IT SOLUTIONS PVT. LTD.

Technology Software Solution

Address: Vishweshwarayya Bhavan, 287/1-7/2, Plot No. 10, Behind Radhika Palace, New Radhika Road, Satara, 415001 PH.02162-227076

Corporate Identity No.: U72900PN2017PTC170827

Ref.: SIT/2018-19/04/05

Date: (3/4)18

Sponsorship

Following Student of Karmweer Bhanrao Patil Codlege of Engineering Satara has completed Live Project Work on "Online Wel. Service & Portal", " Prakruti Sai Chikitsa OPD Center " in this Organization on the offered as "SATARA IT SOLUTIONS PVT. LTD." during the stipulated period from August 2017 to March . 018.

This certificate is issued on their request for partial rulfillment of award of Final Year Computer Engineering (BE Computer).

We wish mean all the best for their future end in ar-

f.l. s. Krutika Ranjit Nalawade

Miss. Srushti Pradeep Patankar

Miss. Nidhi Atul Jagtap

Miss. Tejaswini Hanmant Gaikwad

Thanking You.

For SATARA IT SOLUTIONS PVT. LTD.

> Julyang Authorised Signatory



Date: -13/04/2018 Place: - Satara





44, IT Park, Old M.I.D.C. Satara- 415004. Tel: 91-02162-247046/02162-248901

===11: info@acmeinfinity.com, sales@acmeinfinity.com, www.acmeinfinity.com

SPONSORSHIP LETTER

Date:13 April, 2018

The Head,
Computer Science & Engineering Department,
Karmveer Bhaurao Patil College of Engineering,
Satara.

Dear Sir,

As per discussion with Prof. Mr Rathod M. N.(Project Co-ordinator, Project Guide), project entitled, "ACTIVITY MONITORING" has been sponsored by, "ACME Infovision System Private Limited, Satara" to following final year Computer Science & Engineering department students, for the academic year 2017-18. Sponsorship comprises the technical guidance to realize the idea mentioned in the fite.

Details of the students are:-

1.	Chitnis Ankita.K.	Roll No. 09
2.	Sapkal Chitra C.	Roll No. 13
	Salunkhe Sayli J.	Roll No. 59
4.	Jadhav Pradnya A.	Roll No. 41
	Kachare Pallavi B.	Roll No. 36

Regards.

sh Bora.

Directer)



Technology Software Solution

SATARA IT SOLUTIONS PVT. LTD.

Address: Vishwestwarayya Chavari. 287/1-7/2, Plet No.10, Behind Rachika Palace, New Radhika Rosel, Safera. 415001 PH 02162-227076

Chipores tourity to: U72WX#42321797C170627

Ret SET/2018 19/04/10

Dese: 12(4/14)

Sponsorship

Center is that from August 201 for taking the State of Engineering Seturn has completed one Project Work on the West Work of the Engineering Project Health Resort MD Center is that Organization on the officeal the State of OLUTIONS PVT. LTD." during the Stigulation provides a Control From August 201 for Hayren

This certificate is resided on show request for profile 1. Till its ord award of Final Year Computer Engineering (8) Computer).

We wan then at the best for the statute one and the

til is. Pronati Shantaram Arjugada Nilis. Manisha Ganesh Pawar til is. Akunksha Abusaheb Bhandare

Thankies fulls.

FOI SITURGE PVT LTD.

Authorised Signatury



Date: -13/04/2018 Place: - Satara Technology Software Solution

Address: Vishweshwarayya Bhavan, 287/1-7/2,plot No.10, Behind Radhika Palace, New Radhika Road, Satara.415001 PH:02162-227076

SATSHAJT SOLLTIONS PVI. LTD.

Ref: SIT/2017-18/08/12

Date: 14/8/2017

Sponsorship

Following Student of Karmveer Bhaurao Patil College of Engineering Satara has appoint to Live Project Work on "Online Web Service & Android Application", " Pigmy Collection Android app Devlopment" in this Organization on the offered as "SATARA IT SOLUTIONS PVT. LTD." during the stipulated period from August 2017 to March 2018.

This certificate is issued on their request for partial fulfillment of award of Final Year Computer Engineering (BE Computer).

We wish them all the best for their future endeavors.

Miss. Rajguru Kajal Dattatray

Miss. Jamdade Pooja Satish

Miss. Pawar Priyanka Bharat

Miss. Bhosale Sharayu Madhukar

Miss. Faras Ruksar Aslam

Thanking You,

For

GATARA IT SOLUTIONS PVT. LTD.

Juliantiali Signatory

11 C SULL TO S

Date: -18/08/2017

Place: - Satara



SPONSORSHIP LETTER

To .
The Head,
Computer Science and Engineering Department,
Karmaveer Bhaurao Patil College of Engineering, Satara.

14 October, 2017

Respected Sir,

As per the discussion with students of your college mentioned below, project entitled, "Automated software based system for retail cloth stores" has been sponsored by Mumbai Cheap Kids Wear Clothing Shop to the following final year Computer Science and Engineering department students of Karmaveer Bhaurao Patil College Of Engineering, for the academic year 2017-2018. Sponsorship comprises of stating the requirements and realize the idea mentioned in the title.

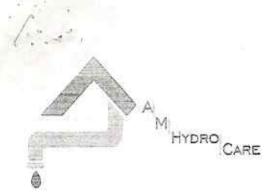
Details of the students are,

- 1. Miss. Payal Omprakash Udhani
- 2. Miss. Poonam Rajendra Doiphode
- 3. Miss. Shraddha Vijayanand Shinde

Thanking You,

Mr. Omprakash Udhani(Owner)

Mumbai Cheap Kids Wear Clothing Shop.



A M HYDRO CARE

Pathways towards safe water...

SRN/AMHC/KBP/2017-18

Date: 15/09/2017

To,
Prof. G. D. Dangat
Computer Science & Engineering Dept.,
Karmaveer Bhaurao Patil College Of Engineering,
Satara, Maharashtra.

Sub: Academic Project Sponsorship

Respected Sir,

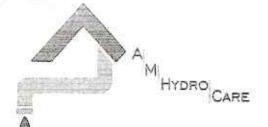
This has reference to our telephonic discussion regarding the aforesaid subject matter. Based on the different aspects those were discussed during our telephonic interaction/talk, we are pleased to inform you that the students named as- 1. Mr. Sudhir Gurav, 2. Mr. Yogesh Hemke, 3. Mr. Sagar Patil, 4. Mr. Ameya Chavan, 5. Miss Afrin Shikalgar and 6. Mr. Shahrukh Khan, of Computer Science & Engineering department of Karmaveer Bhaurao Patil College Of Engineering, Satara are getting sponsored for the project work in our organization on the following terms and conditions:

- Students will be governed by the applicable rules/regulations of the company and will abide by all the rules and regulations that may enforce from time to time.
- During the period of project work, tasks of the students are liable to be terminated at any time without any notice and without assigning any reasons thereof.
- The company will be the sole judge of nature, mode and method of the tasks given to the students during the project work.

79, Deshmukh Colony, Opp. Civil Hospital, Sadar Bazar, Satara, Maharashtra 415 001 Email 1: info@amhydrocare.com Email 2: amhydrocare@gmail.com

Contact: +91 9730707579

Website: www.amhydrocare.com



A M HYDRO CARE

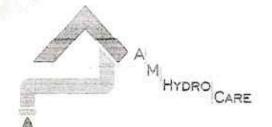
Pathways towards safe water...

- The project sponsorship will not confer any right of employment or any obligation on the company to give employment.
- Present place of work of students will be Satara, but during the tenure of the project work, if
 required, students will be liable at any time to be transferred to any other place of business of
 company including its subsidiaries and sister units (now existing or acquired in future) with due
 permission from the respected project guide.
- 6. In case the performance of students is not found up to the expected standard of the company or if the students are found non-performer or dishonest or disobedient or indiscipline or of violation of one or more terms of this letter or any of the breach of any regulation of the company, the project (work) shall be terminated or discontinued at any time(without any notice).
- 7. You will not (except in the normal course of the company's business) publish any article or statement, deliver any lecture or broadcast or make any communication to the press, including magazine publication relating to the company's products or to any matter with which the company may be concerned, unless you have previously applied to and obtain the written permission from the company.
- You will be required to maintain utmost secrecy in respect of Project Document like design documents, project cost and estimation, technology, software packages license, company's policy, company's pattern & trade mark and company's human assets profile.

Kindly return the duplicate copy of this letter duly signed in token of your acceptance of the above mentioned terms and conditions.

79, Deshmukh Colony, Opp. Civil Hospital, Sadar Bazar, Satara, Maharashtra 415 001 Email 1: info@amhydrocare.com Email 2: amhydrocare@gmail.com Contact: +91 9730707579

Website: www.amhydrocare.com



A M HYDRO CARE

Pathways towards safe water...

We welcome you to our Company and look forward to a fruitful collaboration.

Thanking you,

For A M HYDRO CARE.

Ajay Vinayak Mulay Owner/Director/Propriotor

I/We, signed here below, confirm acceptance of the above mentioned project terms and conditions or rules and regulations governing the same.

Prof. G. D. Dangat Project Guide

1. Mr. Sudhir Gurav

2. Mr. Yogesh Hemke

3. Mr. Sagar Patil

4. Mr. Ameya Chavan

5. Miss Afrin Shikalgar

6. Mr. Shahrukh Khan

Date:

79, Deshmukh Colony, Opp. Civil Hospital, Sadar Bazar, Satara, Maharashtra 415 001 Email 1: info@amhydrocare.com Email 2: amhydrocare@gmail.com Contact: +91 9730707579

Website: www.amhydrocare.com

AUTOMATION PRODUCTS

+ 91- 2162- 245 966 + 91- 2162- 246 509 + 91- 2162- 248 012

Date- 13/12/2017

To,
The HOD,
Electronics Department,
KBP College of Engineering,
Satara 4:5001.

Dear Sir,

<u>Subject</u>: About confirmation of our Sponsorship for the final year project of academic year 2017-18.

With reference to subject matter, we hereby confirm that we shall sponsor the project for the Following students of your college studying in final year of BE Electronics.

- Ms. Aakansha Deshpande.
- 2. Ms. Shalaka Jagtap.
- 3. Ms. Snehal Pawar.
- 4. Ms. Shivani Patil.

Following components are sponsored to the group of students-

Topic name- LASER MICROMETER

Laser collimator	85,000/-
Camera Sensor	1100/-
Other components	
(IC, resistors, capacitors, inductor, connectors etc)	2000/-
Box and Mechanical assembly	2500/-
Keyboard	500/-
Red filter	500/-
Universal plug	200/-
12V Adapter	_350/-
Total Amount	92,150/-

So we are ready to provide Technical Support and Sponsorship in terms of Components to the group of these students.

Thanking you
With Best Regards,
FOR INNOVATIVE AUTOMATION PRODUCTS, SATARA.





啻 + 91- 2162- 245 966

+ 91- 2162- 246 509 1 + 91- 2162- 248 012

Date:

To,

The HOD, Electronics Department, KBP College of Engineering, Satara 415001.

Dear Sir,

Subject: About conformation of our Sponsorship for the final year project of academic year 2017-18.

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- 1. Ms. Aakansha Deshpande.
- 2. Ms. Shalaka Jagtap.
- 3. Ms. Snehal Pawar.
- 4. Ms. Shivani Patil.

So we are ready to provide Technical Support and Sponsorship in terms of Components to the group of these students.

Thanking you
With Best Regards,
FOR INNOVTIVE AUTOMATION PRODUCTS, SATARA.



Head
Department of Electronics
K. B. P. College of Engg.
Satara.

[Type text]

B-24, M.I.D.C., Industrial Estate, Salara 415004, Mahayashtra (INDIA)
sales@innovativedro.com www.innovativedro.com



宮 + 91- 2162- 245 966 + 91- 2162- 246 509 計 + 91- 2162- 248 012 Date:

To,

The HOD, Electronics Department, KBP College of Engineering, Satara 415001.

Dear Sir,

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- 2. Ms. Shalaka Jagtap.
- 3. Ms. Snehal Pawar.
- 4. Ms. Shivani Patil.

So we are ready to provide Technical Support and Sponsorship in terms of Components to the group of these students.

Thanking you

th Best Regards, FOR INNOVTIVE AUTOMATION PRODUCTS, SATARA.



Estd: 1983



"Education through self-help is our motto" - Karmaveer

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara.

Sadar Bazar, Near RTO Office, Satara, Maharashtra State (INDIA) Pin - 415 001.

Founder: Padmabhushan Dr. Karmveer Bhaurao Patil (D.Litt.)

[Approved by AICTE, New Delhi, DTE, Maharashtra State - Affiliated to Shivaji University, Kolhapur]

[Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere - from 2017]

website.www.kbpcoes.edu.in Tele Fax - 02162-235767

EN 6270

E-mail: office@kbpcoes.edu.in

Phone: +91 2162 230636 / 235767 / 233005

Ref. No. : KBPC6 ES/17-18/1237

DATE: 7 / 9/2017

TO,
DIRECTOR
INNOVATIVE AUTOMATION PRODUCTS PVT. LTD.,
B24, OLD MIDC, SATARA, 415004.

SUBJECT- About Technical Support and sponsorship for Final Year Electronics Engineering Project.

Dear Sir,

We are well aware that you are a Leading Manufacturer and Exporter of Electronic Equipments required for manufacturing industry. We sincerely appreciate the efforts and achievements of our alumni.

Below mentioned student of Electronics Engineering Department are interested to work on measuring instrument for manufacturing industry and in this regard it will be our pleasure if we get the support from people like you working in relevant field.

Your support to our students in the form of guidance, opportunity to work with you and learn through your experience is solicited. We therefore request you for Technical Support and Sponsor the Project to the group of students working under the guidance of Prof. Rajan J. Devi.

Name Of Group Members:

- Aakansha Madan Deshpande.
- Shalaka Vaman Jagtap.
- Snehal Rajendra Pawar.
- 4. Shiyani Rajesh Patil.

We look forward to get positive reply from you.

Thanking You,

Prof. R. J. Devi-Project Guide (Vice Principal) Regards

Prof. V. S. Shingate.

Head Of Electronics Department KBP College of Engineering Satara

Appreciation Letter

Dear Swati,

We appreciate your efforts in submitting the proposal for the Qualifying Round – Phase II, 'DST & Texas Instruments (TI) Inc. India Innovation Challenge Design Contest 2017', anchored by the Indian Institute of Management (IIM), Bangalore.

All the submissions were screened as per the judging criteria of the Qualifying Round – Phase II. We have shortlisted 510 teams for the Quarter finals of the IICDC 2017. The details of shortlisted teams can be viewed here. Congratulations to all the selected teams!

Please note the following

The list of selected teams is sorted by the college name for easy reference.

The decision of the evaluation committee is final. Please do not write/call us about your idea.

 All the shortlisted teams will receive a communication from us on December 5th, 2017 with further guidelines. Please check your emails regularly.

 d. Participation certificate will be sent via email to the teams which have not been shortlisted by December 30th, 2017.

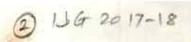
Once again, we thank you all participating students and faculty members for considering IICDC 2017 as a forum to showcase your innovative talent.

Your dream idea could become India's next big start up!

All the very best. For any queries, please write to us at ti-india-dc@list.ti.com

Regards, IICDC Coordinator

Head
Department of Electronics
K. B. P. College of Engg.
Satara.



Dear SWATI NYKUDE:

Thank you for shopping at the TI store. Your order is confirmed and you will receive a shipping notification with the carrier name and tracking number for your item(s) shortly. Sample orders are shipped free of charge. For paid orders, your credit card will not be charged until we ship the item(s) to you. For all orders, Texas instruments pays all taxes and fees when possible.

If you would like a real time status of your order, please login to your TI store account.

For downloadable software, you will receive an e-mail within 24-48 business hours that includes the availability date for your software purchase. You will receive a second email with your access code to download the software. Your credit card will not be charged until you are granted access.

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Thank you, TI store

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Order Number:

1700223

Ordered on:

12/27/2017 4:10:30 AM

Ordered by:

SAYALI BHORDE

Order Total:

\$0.00

Order Status:

View Online

SHIPMENT INFORMATION

Shipment 1 of 1

Ship To:

Shipment Mothod:

K.B.P. COLLEGE OF ENGG SATARA SWATI NYKUDE K.B.P. college of engg near RTO office sadarbazar, Satara SATARA, MH 415001

INDIA

Default for Zone

Qty	SKU	Description	Price
1	CC2520EMK	CC2520EMK-CC2520 Evaluation Module Kit	\$99.00
1	COUPON	India University Contest 2017-18	-\$99.00
2	CC3100BOOST	CC3100BOOST-SimpleLink Wi-Fi CC3100 wireless network processor BoosterPack plug-in module	\$39.98
1	COUPON	India University Contest 2017-18	-\$39.98

2	EK-TM4C123GXL	EK-TM4C123GXL-Tiva™ C Series TM4C123G LaunchPad Evaluation Kit	\$25.98
4	COUPON	India University Contest 2017-18	-\$25.98
2	EK-TM4C1294XL	EK-TM4C1294XL-ARM® Cortex®-M4F-Based MCU TM4C1294 Connected LaunchPad™ Evaluation Kit	\$39.98
1	COUPON	India University Contest 2017-18	-\$39.98

ORDER TOTALS

 Subtotal:
 \$204.94

 Tax:
 \$0.00

 Shipping and Handling:
 \$0.00

 Discounts:
 \$0.00

 Coupons:
 -\$204.94

 Total:
 \$0.00

Head
Department of Electronics
K. B. P. College of Engg.
Satara.

Appreciation Letter

Dear Sayali,

We appreciate your efforts in submitting the proposal for the Qualifying Round – Phase II, 'DST & Texas Instruments (TI) Inc. India Innovation Challenge Design Contest 2017', anchored by the Indian Institute of Management (IIM), Bangalore.

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Once again, we thank you all participating students and faculty members for considering IICDC 2017 as a forum to showcase your innovative talent.

Your dream idea could become India's next big start up!

All the very best. For any queries, please write to us at ti-india-dc@list.ti.com

Regards, IICDC Coordinator

Head
Department of Electronics
K. B. P. College of Engg.
Satara.

Dear SAYALI BHORDE:

Thank you for shopping at the TI store. Your order is confirmed and you will receive a shipping notification with the carrier name and tracking number for your item(s) shortly. Sample orders are shipped free of charge. For paid orders, your credit card will not be charged until we ship the item(s) to you. For all orders, Texas Instruments pays all taxes and fees when possible.

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- · Product date codes
- · Lot number information
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Thank you, TI store

ORDER SUMMARY

Order Number:

1700223

Ordered on:

12/27/2017 4:10:30 AM

Ordered by: Order Total: SAYALI BHORDE

\$0.00

Order Status:

View Online

SHIPMENT INFORMATION

Shipment 1 of 1

Ship To:

Shipment Method:

K.B.P COLLEGE OF ENGG SATARA SAYALI BHORDE K.B.P. college of engg,near RTO office sadarbazar, Satara SATARA, MH 415001 INDIA

Default for Zone

Qty	SKU	Description	Price
1	CC2520EMK	CC2520EMK-CC2520 Evaluation Module Kit	\$99.00
1	COUPON	India University Contest 2017-18	-\$99.00
2	CC3100BOOST	CC3100BOOST-SimpleLink Wi-Fi CC3100 wireless network processor BoosterPack plug-in module	\$39,98
1	COUPON	India University Contest 2017-18	-\$39.98

2	EK-TM4C123GXL	EK-TM4C123GXL-Tiva™ C Series TM4C123G LaunchPad Evaluation Kit	\$25.98
1	COUPON	India University Contest 2017-18	-\$25.98
2	EK-TM4C1294XL	EK-TM4C1294XL-ARM® Cortex®-M4F-Based MCU TM4C1294 Connected LaunchPad™ Evaluation Kit	\$39.98
1	COUPON	India University Contest 2017-18	-\$39.98

ORDER TOTALS

Subtotal:

\$204.94

Tax:

\$0.00

Shipping and Handling:

\$0.00

Discounts:

\$0.00

Coupons: Total: -\$204.94 \$0.00

Head
Department of Electronics
K. B. P. College of Engg.

Satara.



AUTOMETAL COMP. PVT. LTD.

ISO 9001:2000 Certified

L-74, ADDL. MIDC, SATARA 415004 02162-248149 rajeshkopare@hotmail.com

Mechanic

To. Principal K.B.P. College Of Engineering, Satara.

Subject :Sponsorship for project work

Respected Sir,

With reference to your letter, regarding above subject, the management has permitted for dissertation work on "Design and Manufacturing Of Two Post Car Parking Lift" for one year period for students as mentioned below.

Mr. Divate Krishna Pramod

Mr. Gaikwad Aniket Krushnat

Mr. Jadhav Ajay Arjun

Mr. Jadhav Ravikumar Dasharath

Please note that the discipline of company should not be hampered anyway we will give you necessary operation and guidance during project work.

Such undertaking should be provided to Spark Autometal Pvt. Ltd. before commencement of project

With best regards

For Spark Autometal Pvt. Ltd Satara

Mr. Rajesh korpe

Director





AUTOMETAL COMP. PVT. LTD.

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L-74, ADDL. MIDC, SATARA 415004 02162-248149 rajeshkopare@hotmail.com

Date -16/04/2018

CERTIFICATE

TO WHOMSOEVER IT MAY CONCERN

This letter is to certify that the students of K.B.P.C.O.E. Satara studying in final year of mechanical engineering had successfully completed project entitled "design and manufacturing of two post car parking lift". They started their project on 14 Aug 2017 and completed on 15 March 2018.

The students were sincere and honest in their work approach and showed keen interest and good initiative in task assigned to them. With proper exposure and sound guidance they can make their mark in the industry.

We wish them all the best for their career.

Name of the students:-

- 1. Divate Krishna Pramod .
- 2. Gaikwad Aniket Krushnat
- 3. Jadhav Ajay Arjun
- 4. Jadhav Ravikumar Dasharath

Yours faithfully,

For Spark Autometal Comp. Pvt. Ltd. Satara.

HR & Administration



4.9 COSTING

Table 4.8 Costing

Sr.no.	Part name	Quantity	Total Cost (Rs.)
1.	Base	1	9000
2.	Column	2	10000
3.	Platform	1	14000
4.	Arms	4	12000
5.	V-Clip	2	4000
6.	Motor	1	12000
7.	Pulley	2	1800
8.	Belt	3	1440
8.	Lead Screw	2	8000
9.	Bush	4	8800
10.	Key	4	200
11.	Chain	1	1200
12	Sprocket	2	760
13	Bearing	4	1600
14	Screws, Nut & Bolts	**********	1000
Total cost			85800

SUPREME PLASTICS

L-49, ADDL. M.I.D.C. SATARA-415004 PH-(02162)240382,9822387252,9422603504 GSTIN- 27AAMFS2595[12]

Email- supremeplastics. 1 49@yahoo.co.in

4.10.17

To.

The HOD Mechanical Engg.

Karmveer Bhaurao Patil college of Engineering, Satara,

Subject:

Providing Sponsorship to your students for Project Work entitled "Design

and Manufacturing of runner removing and drilling attachment"

Respected Sir,

We are manufacturing of Plastic moulded component. Now we want to improve system, related to drilling and finishing ,so that we insist semi-automatic machine having deburring and drilling system .We provide required relevant data to the students and students present the design related to that machine and inform us about working of the deburring & drilling machine.

The below mentioned students are requesting to work on project "Design and Manufacturing of runner removing and drilling attachment ". We are giving preliminary permission to them on the organizational terms and conditions. The students will be provided all the relevant data as well as the expenses related to the project manufacturing only. Other expense regarding their accommodation is not the responsibility of the organization.

This is for your information only.

Thanking you.

Name of the students:

ı.	Bhosale Siddhesh Ashok
2.	Tate Akshay Maruti
3.	Gaikwad Hrushikesh Sopan
4.	Tatpuje Rohit Satish

Regards

For, Supreme Plastics

SUPREME PLASTICS

L-49, ADDL. M.I.D.C. SATARA-415004 PH-(02162)240382, 9422603504

GSTIN-27AAMFS2595J1ZJ

Email-supremeplastics.l_49@yahoo.co.in

CERTIFICATE

This letter is to certify that the students of K.B.P.C.O.E.S studying final year of mechanical engineering had successfully completed project entitled "design and manufacturing of drilling and deburring attachment." They started their project on 19th Aug 2017 and completed on 28th Feb 2018.

The students were sincere and honest in their work approach and showed keen interest and good initiative in task assigned to them. With proper exposure and sound guidance they can make their mark in the industry.

We wish them all the best for their future career.

Name of the students :-

- 1. Bhosale Siddhesh Ashok
- Gaikwad Hrushikesh Sopan
- 3. Tate Akshay Maruti
- 4. Tatpuje Rohit Satish

Yours faithfully,

For supreme plastics satara.

5.8 COSTING

Table no. 5.11

Sr. No	Material	Rate	Quantity	Rupees
1	Hand drill Machine connecting plate	•	Ī	
2	Base plate	65/kg	1	340
3	Fixed block	65/kg	1	92
4	Sliding block	65/kg	ī	92
5	Guide rod	65/kg	2	30
6	Top plate	65/kg	1	10
7	Small fan spacer	65/kg	1	15
8	Medium fan spacer	65/kg	1	18
9	Big fan spacer	65/kg	1	18
10	Fan mounting plate	65/kg	1	163
11	Chamfer tool	•	2	600
12	Linear bearing(LM20)	•	2	360
13	Jig plate for small fan	65/kg	1	3
14	Allen bolt	6	20	120
15	Labour cost	:	1	4000
	TOTAL			5861

Jadhav Brothers

At Nele, Post Kidgaon, Tal. & Dist. Satara

Ref.: JB/012

Date: 22/7 /2017

To,
The HOD Mechanical
KBPCollege of Engineering,
Satara

Subject: Providing Sponsorship to your students for project work Respected Sir.

We are dealing with the manufacturing and trading of the various furniture and home appliances items.

One research project is being carried out at ourindustry entitled "Pneumatic Pipe Bending Machine".

The below mentioned students are requesting to work on that project. We are giving preliminary permission to them on the organizational terms and conditions.

This is for your information only.

Thanking you.

Names of the students:

- Mr. Shivraj Mahesh Kashid
- 2. Mr. Ajay Deepak Ghadge
- 3. Mr. Akshay Kisan Bankar
- 4. Ms. Naziya Mubarak Shikalgar

Ser Jakhav Brothers

Fromtieto:

Your faithfully,

Jadhav Brothers

At Nele, Post Kidgaon, Tal. & Dist. Satara

Ref.: JB/033

Date:23/02/2018

To,
The HOD Mechanical
KBPCollege of Engineering,
Satara

Subject: Completionof project work

Respected Sir,

The below mentioned students have been worked on the project entitled "Pneumatic Pipe Bending Machine". They played an important role in the field of design and manufacturing. The project work is completed in their academic period. The total estimated cost of the project including all expenses is Rs. 56,000/-.

This is for your information only.

Thanking you.

Names of the students:

- Mr. Shivraj Mahesh Kashid
- 2. Mr. Ajay Deepak Ghadge
- 3. Mr. Akshay Kisan Bankar
- 4. Ms. Naziya Mubarak Shikalgar

For Jadhay Brothers

Proprieto:

Your faithfully,

6.1 Cost Sheet - Manufactured Parts

SR. NO	PART NAME	MATERIAL COST	MANUFACTURING COST
1	Pulley	1500	900
2	Pulley spacer	600	300
3	Table spacer	300	250
4	Table	2500	650
5	bracket	700	500
6	stopper	300	250
TOTAL		4400	1950
GRAND TOTAL			6350

Table no. 4

Esta : 1983



Rayet Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara.

Sadar Bazar, Near RTO Office, Satara, Maharashtra State (INDIA) Pin - 415 001.

Founder: Padmabhushan Dr. Karmyser Bhaurac Patil (D.Litt.)

[Approved by AICTE, New Deini, DTE, Maharashira State - Affiliated to Shivaji University, Kolhapur]
[Affiliated to Dr. Babasaheb Ambedkar Technological University, Lonere - from 2017]

website.www.kbpcoes.edu.in Tele Fax - 02162-235787

EN 6270

E-mail: office@kbpcoes.edu.in

Phone: +91 2162 230636 / 235767 / 233005

Ref. No. : KBP CORE / 17-18/88/

DATE: 24/7 /2017

To, H.R. Manager, Mutho, Founday

Subject: - Sponsorship for the Project Work.

Respected Sir,

We are proud to introduce ourselves as one of the prestigious college in Shivaji university area and our college is run by Rayat Shikshan Sanstha Satara. We are at present running Mechanical, Production, Civil, Computer and Electronics branches for four year degree course and college is also having PG course in Mechanical & Electronics Engineering.

As per university syllabus students studying in the final year Mechanical Engineering have to complete a project as part of their curriculum so that they will develop important skills like teamwork and students will get an opportunity to put forth their ideas and innovations and they will learn with a practical orientation.

Therefore we wish to depute,

- Pawar Nikita Rajendra.
- Patel Mohammadhusen Raju.
- Nikalje Sujeet Prakash.
- 4. Sonwalkar Pravin Dnyaneshwar,

They are very sincere and hardworking students. We request you to help them in this matter. We have given them complete instruction to follow all the rules and regulation of your organization and behave in a responsible manner.

Kindly lets have the confirmation as early as possible.

Thanking you,

Yours faithfully

Karmaveer Bhaurao Patil College Of Engineering, Satara

of c Hu

"ENHANCEMENT OF FOUNDRY PROCESS BY SAND MATERIAL HANDLING AND AUTOMATIC INOCULATION DISPENSER UNIT."

17. COST ANALYSIS

1	HOPPER	25,000 Rs.
2	UPPER AND LOWER PLATES	10,000 Rs.
3	YOLUMETRIC CUP UNIT	5,000 Rs.
4	LEVER	5,000Rs.
5	DELIVERY PIPE BASE STRUCTURE	5,000Rs.
6	OTHERS (NUT-BOLTS, MACHINING COST,ETC.)	8,000Rs.
	TOTAL	63,000Rs

1st Prize Winner for tict's Best Industrial Award for Year 2007.



ABHIJAT EQUIPMENTS PVT. LTD.

Regd. Off. & Works: 19/4, Molacha Odha, Satara-415 002, Maharashtra (India)

Board: 0091-2162-250196 Cell: 0091-9860129600 Fax: 0091-2162-250596

E.mail: sales@abhijatequipments.com Website: www.abhijatequipments.com

Date: - 20/08/2017

To, The principal, Karmaveer Bhaurao Patil College of Engineering, Satara.

Sub: - Sponsorship for project to B.E. Mechanical Student

Dear Sir,

M/S Abhijat equipment Pvt.ltd. Satara is an ISO 9001:2008 certificate unit promoted by qualified and experiment technocrats. The promoters have experience in manufacturing various machine tools like automats, capstan, special purpose drilling machine and CNC machine tools. These machine tools are also exported to USA, U.K. and Middle East countries in addition to indigenous market.

We have very good set up for design and manufacturing of machine tools and are always in development of innovative quality tools.

We are sponsoring a project "DESIGN AND ANALYSIS OF AUTOMATIC INDEXING TOOL HOLDER FOR CNC E-42" to the following final B.E. Mechanical degree students of your institute under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. Ltd. and Prof. Mrs. M.Y. Shinde, H.O.D. of Mechanical Department.

Name	Roll No.
1. Mr. Bhange Sanjit Shankar	05
2. Mr. Deshmukh Shubham Sureshrao	08
3. Mr. Gurav Manoj Sakharam	18
4. Mr. Waikar Ajit Sunil	70

Hope this will enhance industry- institute- interaction and promote young budding engineering

For Abhijat Equipments Pvt. Ltd

Mr. Shinde S.H. H.R. Manager

students.

Mr. Godse N.S. Design Manager Ist Prize Winner for for for Year 2007.



ABHIJAT EQUIPMENTS PVT. LTD.

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Board: 0091-2162-250196 Cell: 0091-9860129600 Fax: 0091-2162-250596

E.mail: sales@abhijatequipments.com Website: www.abhijatequipments.com

Date - 12/4/2018

CERTIFICATE

This is to certify that, the following Final year B.E. Mechanical students of Karmaveer Bhaurao Patil College of Engineering, Satara.

	NAME	ROLLNO
1	Mr. Bhange Sanjit Shankar	05
2.	Mr. Deshmukh Shubham Sureshrao	08
	Mr. Gurav Manoj Sakharam	18
	Mr. Waikar Ajit Sunil	70

Have successfully completed the project "DESIGN AND ANALYSIS OF AUTOMATIC INDEXING TOOL HOLDER FOR CNC E-42" in shortest time span.

Their project involved designing of the drilling attachment for CNC E-42. This will help us to increase the productivity and will also help to increase the functionality of our CNC.

The project started on 1 August 2017 and was successfully completed on 10 April 2018. This project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Equipments Pvt. project completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Completed under the guidance of Mr. N.S. Godse, Design Mananger, Abhijat Completed under the guidance of Mr. N.S. Godse, Design

In this entire project work execution, we found above students are innovative, hardworking and sincere.

For Abhijat Equipments Pvt. Ltd.

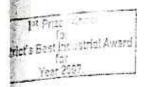
(Mr. Shinde S.H.) H.R. Manager

(Mr. Godse N.S.) Design Manager

8. COST ANALYSIS

Table 27:Cost Analysis of In-house material

Sr. No.	Part No.	Part Name	Description	Qty	Wt. (kg)	Total Wt. (kg)	Unit cost (Rs)	Tota cost (Rs)
1	AITH01	Base Plate	260×80×27.5	1	4.5	4.5	60	270
2	AITH02	Locking Rod Support	30×35×70	ı	0.58	0.58	60	35
3	AITH03	Locking Rod	Ø25×52	1	0.2	0.2	55	11
4	AITH04	Cylinder Support B	25×125×40	2	0.98	1.96	60	120
5	AITH05	Cylinder Support A	25×80×40	2	0.63	1.26	60	75
6	AITH06	T-Nut	25×22×65	2	0.28	0.56	60	35
7	AITH07	Washer	Ø30×3	1	0.02	0.02	60	2
8	AITH08	Bush	Ø31×25	2	0.15	0.3	60	20
9	AITH09	Holding Plate	150×125×20	1	2.95	2.95	60	180
10	AITH10	Indexing Disc	Ø120×35	1	3.1	3.1	60	190
11	AITHII	Shaft	Ø50×45	1	0.7	0.7	60	45
12	AITH12	Key	Square Key 6×6×20	1	5.65	5.65	60	340
13	AITH20	Sheet Cover	Sheet 1.5 Thick	1	*	-	50	50
14	AITH22	Connector	Ø20×80	ī	0.2	0.2	60	12
15	AITH24	Poppet	Ø13×11	2	0.02	0.04	60	3
587	A.T	otal Cost of In	-house Material	s		20	-	1390





ABHIJAT EQUIPMENTS PVT. LTD.

Regd. Off. & Works: 19/4, Molacha Odha, Satara-415 002, Maharashtra (India)

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E.mail: sales@abhijatequipments.com Website: www.abhijatequipments.com

Date: - 20/08/2017

To, The principal, KBP College of Engineering Satara.

Sub: - Sponsorship for project to B.E. Mechanical Student

Dear Sir,

M/S Abhijat equipment Pvt.ltd. Satara is an ISO 9001:2008 certificate unit promoted by qualified and experiment technocrats. The promoters have experience in manufacturing various machine tools like automats, capstan, special purpose drilling machine and CNC machine tools. These machine tools are also exported to USA, U.K. and Middle East countries in addition to indigenous market.

We have very good set up for design and manufacturing of machine tools and are always in development of innovative quality tools.

We are sponsoring a project "DESIGN AND MANUFACTURING OF FIXTURES" to the following final B.E. Mechanical degree students of your inspection.

	Name	Roll No
1.	Miss. Lohar Priyanka Parshuram	35
2.	Miss. Yadav Pooja Ramchandra	73
3.	Mr. Yadav Harshad Rajnikant	72
4.	Mr. Shingade Nilesh Popat	63

Hope this will enhance industry-institute-interaction and promote young budding engineering students.

For Abhijat Equipments Pvt. Ltd

HR Manager Shrikant Shinde For Abhijat Equipments Pvt. Ltd

Mainténance Manager Shahaji Shinde (Project Guide) rict's Bost, Courtal Award Year 2007.



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Board: 0091-2162-250196 Cell: 0091-9860129600 Fax: 0091-2162-250596

E.mail : sales@abhijatequipments.com Website : www.abhijatequipments.com

Date - 16/4/2018

CERTIFICATE

This is to certify that, the following Final year B.E. Mechanical students of Karmaveer Bhaurao Patil College of Engineering, Satara.

NAME	ROLL NO.
1. Miss. Lohar Priyanka parshuram	35
2. Mr. Shingade Nilesh Popat	63
3. Mr. Yadav Harshad Rajanikant	72
4. Miss. Yadav Pooja Ramchandra	73

Have successfully completed the project "DESIGN AND MANUFACTURING OF FIXTURES" in shortest time span.

Their project involved designing & manufacturing of the fixtures for milling machines. This will help us to increase the productivity and will also help to increase the functionality of our machines.

The project started on 1 August 2017 and was successfully completed on 10 April 2018. This project completed under the guidance of Mr. S.G.Shinde Maintenance Manager, Abhijat Equipments Pvt. Ltd. and Prof. Mrs. M.Y. Shinde, H.O.D. of Mechanical Department. We wish them great success in future.

In this entire project work execution, we found above students are innovative, hardworking and sincere.

For Abbijat Equipments Pvt. Ltd.

(Mr. Shinde S.H.) H.R. Manager

(Mr. Shinde S.G.) Maintenance Manager

TOTAL COST

1) FIXTURE NO .1

Cost of Purchased Parts + Cost of Raw Material + Machining Cost

- =198 + 824 + 527
- = Rs 1549

Overhead: -

- = 25 % of total cost
- = 25 % 1549
- = Rs388

Total cost:-

- =1549 + 388
- = Rs 1937

2) FIXTURE NO 2:-

Cost of purchased parts + cost of raw material + machining cost

- = 256 + 1008 + 872
- =Rs. 2136

Overhead:-

- =25 % of total cost
- = 25 % 2136
- = Rs.534

Total cost:-

- = 2136 + 534
- = Rs. 2670

3) FIXTURE NO.3

Cost of purchased parts + Cost of raw material + Machining cost

- $= 182 \pm 560 \pm 305$
- Rs. 1047

Overhends:-

- = 25 % of total cost
- = 25 % of 1047
- = Rs. 261.75
- = Rs.262

Total cost:-

- = 1047 + 262
- = Rs. 1309

FIXTURE NO 4: -

Cost of purchased parts + Cost of raw material + Machining cost

- = 166 + 379 + 219
- = Rs. 764

Overheads:-

- = 25 % of total cost
- = 25 % of 764
- = Rs. 191

Total cost:-

- = 764 + 191
- = Rs.955

Total cost of the entire project

- = 1937 + 2670 + 1309 + 955
- = Rs. 6871

[KARMVEER BHAURAO PATIL COLLEGE OF ENGINNERING SATARA] Page 92

₹U}= led to change

Utkarsh Enterprises

26, Meghdooth housing society M. I. D. C, Satara - 415004

☑ utkarshenterprises66gmail.com
S. Pradhan ② - 9403389967

Ref No: BE/17-18/0124

Date: 06-04-2018.

To,

The Head of Department,

Karmaveer Bhaurao Patil College of Engineering,

Satara.

Subject: -Sponsorship for the Project Work.

Ref. - Your college letter dated 16.08.2017

Respected Madam,

I undersigned is the director of Utkarsh Enterprises is a leading provider of enterprise class product & services based on various categories like SPM.

We have undergone the overview of the project of your students & we are ready to provide sponsorship for the project & hereby approving the sponsorship for project of the student enlisted below. Our project amount will be 29600/- It is expected that student will keep confidentiality of the information gathered during this project.

- 1. Mr. Bachal Ganesh Nandkumar
- 2. Mr. Mundhe Arjun Pralhad
- 3. Mr. Shelke Akshay Aba
- 4. Mr. Todkar Shridhar Anandrao

Regards

For, Utkarsh Enterprises, Satara.

Utkarsh_Enterprises

Proprietor



Utkarsh Enterprises

 Meghdooth housing society M. I. D. C, Satara - 415004 □ utkarshenterprises66gmail.com
 S. Pradhan ② - 9403389967

CERTIFICATE

This is to certify that,

- 1. Mr. Bachal Ganesh Nandkumar
- 2. Mr. Mundhe Arjun Pralhad
- 3. Mr. Shelke Akshay Aba
- 4. Mr. Todkar Shridhar Anandrao

Are student of final year B.E.Mechanical from Karmaveer
Bhaurao Patil College of Engineering, Satara. Has successfully completed the
project on "Design and Manufacturing of Hydraulic Scissor Lift" of cost 29600Rs
under the guidance of Prof. Patil S. S. in our organization.

We wish best of luck for their future.

Utkarsh Enterprises.

Authorized Signation



Utkarsh Enterprises

26, Meghdooth housing society M. I. D. C, Satara - 415004 □ utkarshenterprises66gmail.com
 S. Pradhań □ - 9403389967

LETTER OF APPRECIATION

This certificate is awarded to,

Mr. Shelke Akshay Aba

Mr. Bachal Ganesh Nandkumar

Mr. Todkar Shridhar Anandrao

Mr. Mundhe Arjun Pralhad

In appreciation and recognition of the contribution you have made in "UTKARSH ENTERPRISES" over the year 2017-18 in under the guidance of Prof. Patil. S. S.

Your enthusiasm and ability to fulfill the commitment is appreciable. We appreciate your efforts and assistance you delivered.

During the period of your presence you were found inquisitive and hardworking. Your overall performance and behavior is found to be satisfactory.

We wish you all success for your future endeavors.

Utkarsh Enterprises.

Authorized Signatory

4.7.4 Brought Out Components

Table 4.11 Brought out components

Sr. No.	Components	Costa
1	Washer	Cost (In Rs.)
2	Wheel	250
3	Hydraulic Oil	2200
4	Hose Pipe	3300
		900
5	Single acting cylinder	8000
6	Square Pipe	- VENET
U	(40X40)	2340
-	Square Pipe	
7	(25X25)	1260
8	Square Pipe	
8	(40X20)	540
9	M S Sheet	2200
10	Bearing (6201)	340
11	Bush & Weld nut	250
12	Welding Rod	320
13	Grinding Wheel	120
	Total	22020

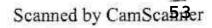
4.7.5 Total Cost

Table 4.12 Total cost

Sr. No.	Components	Cost (In Rs.)
2	Manufacturing Cost	3930
	Brought Out Components	22020
3	Overhead Cost	3650
	Total	29600.00

Karmaveer Bhaurao Patil College Of Engineering, Satara

. Page 48



SPONSORSHIP LETTER



अजिंक्यतारा सहकारी साखर कारखाना मर्यादित AJINKYATARA SAH. SAKHAR KARKHANA LTD;

Regn No . SAT-PRO (A) - 6 (5) Dr. 28-10-1970 शाह्नगर, गेंद्रे, ता. जि. सातारा पिन – ४१५ ५१९

Shahunagar - Shendre, Tal. & Dist. Satara, Pin - 415 519 (Maharashtra)

फोन /फॅक्स : (02162) 279166 - 68 / 279266 - 68.

e-mail: ajinkyasugar@gmail.com

ASSK/ENV/2017-18

h -0045

Date: 06-04-2018.

To,

The Principal,

Karmaveer Bhaurao Patil College of Engineering.

Subject: -Sponsorship for the Project Work. Ref. - Your college letter dated 01.08.2017

We are pleased to inform you that following students of your institute has been allowed to do project work at Ajinkyatara Sahakari Sakhar Karkhana Ltd, Shendre.

- 1) Jadhav Sayti Jagannath
- 2) God Sushma Uttam
- 3) Ghanwat Aniket Laxman

The project period is from 1 Aug.2017 to 12 March 2018. The title of project - Design And Manufacturing Of Oil Skimmer.

Kindly advice your student to strictly observe discipline, rules and regulations of the company and give full co-operation to the company guide Mr. B.D. Powar. Our project amount will be 25800/- It is expected that student will keep confidentiality of the information gathered during this project. Students are advised to submit the draft of project report to the company guide on completion of the project. Student may take final prints of the report for submission on approval of company guide.

We are sure that the project work would be useful to student in providing an exposure to practical knowledge of technological development in the industry.

Thanking you

MANAGING DIRECTOR

LETTER OF APPRICIATION



अजिंक्यतारा सहकारी साखर कारखाना मर्यादित, AJINKYATARA SAH. SAKHAR KARKHANA LTD;

Rep. No.: SAT/PRG (A) - 6 (S) Dt. 28-10-1970 गासूनगर, गेंद्रे, ता. जि. सातारा पित - ४१५ ५१९ Shahunagar - Shendre, Tal. & Dist. Satara. Pin 415 519 (Maharashtra)

फोन / फॅक्स : (02162)279166-68/279266-68,

E-mail: alinkyasugar@gmail.com

m-0131

1 8 APR 2018

LETTER OF APPRECIATION

This certificate is awarded to,

Mr. Ghanwat Aniket Laxman

In appreciation of recognition of the contribution you have made in Ajinkyatara Sahakari Sakhar Karkhana Ltd, Shendre Satara over the year 2017-2018 your enthusiasm and ability to fulfil the commitment is appreciable. We appreciate your efforts and assistance you delivered during the period. Your presence were found inquisitive and hardworking. Your overall performance and behaviour was found to be satisfactory. We wish you all the success in your future endeavours.

Date -20.03.2018

Regn No SAIGNAR DI ZAIGNAR DI ZAI

Sanjeev Desai Managing Director

VII

COMPANY CERTIFICATE



अजिंक्यतारा सहकारी साखर कारखाना मर्यादित, AJINKYATARA SAH. SAKHAR KARKHANA LTD;

Regn No. SAT/PRG (A) - 6 (5) DL 28-10-1970 शाहुनगर, शेंडे, ता. जि. सातारा पिन – ४१५ ५१९

Shahunagar - Shendre, Tal. & Dist. Satara. Pin 415 519 (Maharashtra)

फोन / फॅक्स : (02162)279166-68 /279266 -68,

E-mail: ajinkyasugar@gmail.com

m-0131

J B APR 2018

CERTIFICATE

This letter is to certify that the students of Karmaveer Bhaurao Patil College Of Engg Satara studying in final year of mechanical engineering had successfully completed project entitled "Design And Manufacturing Of Oil Skimmer". They started their project on 1 Aug 2017 and completed on 12 March 2018.

The students were sincere and honest in their work approach and showed keen interest and good initiative in task assigned to them. With proper exposure and sound guidance they can make their mark in the industry.

We wish them all the best for their career.

DL 28/10/70

Name of the students:-

1.Ghanwat Aniket Laxman

2. Jadhav Sayli Jagannath

3. God Sushama Uttam

Date: 20.03.2018

Sanjeev Desai Managing Director

Design & Manufacturing of Oil Skimmer

4.2 Cost Estimation:

Table No. 4.2-Cost Estimation

Sr. No.	Part Name	Quantity	Rate (Rs)	Cost (Rs)
1	Gear Motor	t.	7200.00	7200,00
2	Drum Roller	2	1225.00	2450,00
3	Belt	ı	1700.00	1700.00
4	Liber Scrapper	1	650.00	650,00
5	Bearing	2	750.00	1500.00
			Total	13500.00

Design & Manufacturing of Oil Skimmer

4.3 Expenditures on Materials:

Table No. 4.3 - Material Cost

Sr. No	Particulars	Material	Quantity	Rate (Rs)	Total cost (Rs
1	Shaft 20mm Dai.	Alloy Steel 35Mn 2Mo 28	1.Nes	300,00	3(0),(0)
2	Rectangular plate	Mild Steel	4.Nos	50.00	200.00
3	Gear Motor Base	Mild Steel	1.Nos	500.00	500,00
				Total	1000.00

Total cost in Rs = cost Estimation + Expenditure on Material

=13500+1000

= Rs 14500

SEREE ENGINEERING WORK

ALL TYPE OF ENGINEERING JOB WORKS, REPAIRING AND MAINTENANCE

M-49, Additional MIDC, Satara, Mob: 9922579355

Ref: SE/KBPCOES/17-18/900

Date: 02/08/2017

To,

Whomsoever it may concern

This is the confirmation letter regarding the sponsorship for BE FINAL YEAR PROJECT students listed below:

- Jadhav Shirish Manik
- 2. Madane Nikhil Milind
- 3. Phadtare Pratik Shrikant
- Bagade Vishal Ashok

It is supposed that students are well instructed for the rules and regulations of the organization and they will behave as per the instructions.

We are offering them the technical knowledge and required inventory for the completion of project work

935

SHREE ENGINEERING WORKS

Mis. Shree Engineering Works Plot No.15.49, Addl. M.I.D.C., Salero



SHREE ENGINEERING WORK

ALL TYPES OF JOB WORKS, REPAIRING & MAINTANANCE WORKS.

M-49, Addl. M.I.D.C., Satara. Ph.: 247174 Mob.- 9922579355

Ref.:- SEK BPKEOS/17-18/900

Date: 11-4-18

CERTIFICATE

This letter is to certify that the student of Karmaveer Bhaurao Patil Collegte of Engineering, Satara studying in final year of mechanical engineering had successfully completed project entitled "Design and development of multi spindle drilling head attachment". They started their project on 02 Aug 2017 and completed 16 March 2018.

The students were sincere and honest in their work approach and showed keen interest and good initiative in task assigned to them. The total cost of project including labor, material and machining is about 19000 Rs. With proper exposure and sound guidance they can make their mark in industry.

We wish them all the best for their career.

Name of students:

- 1. Mr. Bagade Vishal Ashok
- Mr. Jadhav Shirish Manik
- Mr. Madane Nikhil Milind
- 4. Mr. Phadtare Pratik Shrikant

Project guide: - Asst. Prof. A. S. Pujari

Company guide: - Mr. Saish Kashid

Yours Faithfully,

Shree Engineering Work, Satara

Ms. Shree Engineering Works Plot No. 14.49, Add. M.I.D.C., Satara

5.3 Cost analysis

5.3.1 Housing:

i) Raw material cost = 2.5 kg x 500 Rs/kg

= Rs. 1250

ii) Machining cost

Table 3: Cost of Housing

Sr. No.	Machine used	Operation	Rate (Rs/lir)	Total time (hrs)	Cost
ī	Lathe	Turning and	80	3	255
	VMC	Boring	1000	- 4	1000
3	Drilling machine	Drilling	20/hole	5	100
 4	Tapping	Tapping	5/hole	5	2.5
	machine	Total		438	Ó

Total cost of housing = raw material cost + machining cost

-- 1250 + 4380

.. Total cost of housing = 5360 Rs.

5.3.2 Gearing:

Table 4: Cost of Gear

Sr	Components	Rate per teeth	No. of teeths	Quantity	Cost
No.		15		· · · · · · · · · · · · · · · · · · ·	375
1	Input gear		26	4	1560
2	Output gear	15		Total	1935

KARMAVEER BIIAURO PATIL COLLEGE OF ENGINEERING., SATARA)

32.0

.. Total cost of gears is Rs. 1935

5.3.3 Spindle:

i) Raw material cost = 0.4 kg x cost per kg

$$= 0.4 \times 750$$

ii) Machining cost

Table 5: Cost of Spindle

Sr. No.	Machine Used	Operation	Rate (Rs/hr)	Total time(Hr)	Total Cost(Rs)
1	Lathe	 Centering Rough Turning Drilling 	80	7.3	600
2	Milling	Keyway	150	1.3	225
3	Grinder	Grinding	350	5 .	1750
				Total =	2575

Total cost of spindle = Raw material cost + Machining cost

$$= 320 + 2575$$

$$= 2895 \text{ Rs.}$$

: Total Cost of Spindle is Rs. 2895

5.3.4 MT3 Taper Shaft:

i) Raw material cost = Wt of raw material x cost per kg

 $= 1 \times 100$

= Rs. 100

ii) Machining cost

Table 6: Cost of MT3 Shank

Sr. No.	Machine Used	Operation	Rate (Rs/hr)	Time (Hr)	Cost (Rs)
1	Lathe	 Centering Turning Taper Turning Drilling Grooving 	80	3	240
2	Milling	Keyway	150	2'	300
3	Grinder	Grinding	350	1	350
				Total =	890

Total cost of shaft = Raw material cost + machining cost

= 100 + 890

= Rs. 990

: Total cost of shaft is Rs. 990.



5.3.5 Cost of purchased parts:

Table 7: Cost of purchased parts

Sr. No.	Description	Cost per Piece	Quantity	Cost (Rs)
	Ball Bearing(61802)	700	2	1400
	Ball Bearing(68101)	500	8	4000
	Drill Ø5.4 carbide	700	4	2800
	Nut M8	9	9	81
	Grub Screw	3	8	24
	Key	40	5	200
	Circlip	20	1	20
			Total =	8525



Spavy Fitness Equipments Pvt. Ltd.

B-21, Old MIDC., SATARA - 415 004 Tel.No.: (02162) - 244425 Email: contact@spavyfitness.in Mob: 9822637274, 9881109163

Date:02/08/2017

TO WHOM SO EVER IT MAY CONCERN

This is to certify that we have sponsored following student for the project "SEMI-AUTOMATIC SPRING MANUFACTURING MACHINE".

- 1. ROHIT SURESH SAWANT
- 2. AKSHAY ASHOK DESHMUKHE
- 3. GOVIND PANDHARINATH BUDHVANT
- SATISH SHYAM KSHIRSAGAR

All students of K.B.P.C.O.E.S. Department of Mechanical Engineering, Satara

Place: Satara

Spavy Fitness Equipments
Pvt. Ltd., Satara



Spavy Fitness Equipments Pvt. Ltd.

B-21, Old MIDC., SATARA - 415 004 Tel.No.: (02162) - 244425 Email: contact@spavyfitness.in Mob: 9822637274, 9881109163



Date: 05/04/2018

TO WHOM SO EVER IT MAY CONCERN

CERTIFICATE

The following students from K.B.P. College of Engineering, Satara of branch BE Mechanical has successfully completed their final year project "SEMI-AUTOMATIC SPRING MANUFACTURING MACHINE" in our organization. They had undergone this project since 2 Aug. 2017 to 1 April 2018 under the guidance of Mr. Mohite S. A.

- 1) ROHIT SURESH SAWANT
- 2) AKSHAY ASHOK DESHMUKHE
- 3) GOVIND PANDHARINATH BUDHVANT
- 4) SATISH SHYAM KSHIRSAGAR

During the above period we found all sincere and hardworking and they taken proper initiative with efforts towards completing their project.

"WE WISH ALL THE BEST FOR THEIR FUTURE CAREER"



Spavy Fitness Equipments

Place: Satara

CHAPTER 7 COSTING

Table No. 7.1 Costing

St. No.	Description	Quantity	Rate	Amount
1	Proximity Sensor	1	1200	1200
2	Preset Counter	1	2100	2100
3	Motor	1	4420	4420
4	Pulley 1 (dia. 140mm)	I.	250	250
5	Pulley 2 (dia. 320mm)	1	560	560
6	V Belt	1	487	487
7	Gear Box	1	6300	6300
8	3 Jaw Chuck	1	4200	4200
9	Wire Stand	1	1200	1200
10	Lower Frame	1	2000	2000
12	Slider Mechanism	1	1800	1800
13	Cutter Lifting Mechanism	1	1900	1900
14	Grinder	1	1300	1300
15	Other Electrical Component		600	600
16	Paint		200	200
17	Indirect Cost	•	800	800
	TOTAL			29317

K.B.P.C.O.E.SATARA

Dept. of Mech. Engg.

Page 48



Atharv Enterprises

Behind MIDC Office, Old MIDC, Satara

CERTIFICATE

This is to certify that the students of B.E. Mechanical from Karmaveer Bhaurao Patil college of Engineering. Satara has successfully completed the project "Design and Fabrication of Semiautomic Workbench for Horizontal Drilling Machine" in our organization. They had undergone this project from 03rd August, 2017 to 23rd March, 2018 in our Production department under the guidance of Mr. Yogesh Gadave.

During the above period we found him sincere & hard working and he has taken proper initiative and efforts towards completing this project.

"WE WISH HIM ALL THE BEST FOR HIS FUTURE CAREER".

Name of students:-

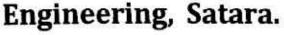
- Shinde Chandrahar Rajaram
- 2. Shende Renuka Sahakar
- 3. Newase Vrushali Shankar
- 4. Kudale Akshay Ashok

ATMARY ENTERPRISES

Proprietor
For Atharva Enterprises,

Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of







CERTIFICATE

This is to certify that, the work being presented in this project report entitled "DESIGN AND FABRICATION OF SEMIAUTOMIC WORKBENCH FOR HORIZONTAL DRILLING MACHINE" In partial fulfillment of the requirement for the award of the degree of Bachelor of Engineering in Mechanical Engineering of Shivaji University, Kolhapur.

To the Department of Mechanical Engineering, Karmaveer Bhaurao Patil College of Engineering, Satara is the record of the student's own work that is carried out under my supervision and guidance.

Shinde Chandrahar R	77
Shende Renuka S	60
Newase Vrushali S	42
Kudale Akshay A	33

Date:20 / 4 /2018

Place: Satara

Prof. Miss Shivdas R.K. Prof. Mrs. Shinde M. Y.

Dr. Sangale S. M.

Examiner

Guide

HOD 7

6.3 Cost of Machining & Equipments

Juble no.6.1 Size of raw material for workbench of horizontal drilling machine

1	Description	Materi		Raw size		Qty	Wt.	Rate	Price
,		al	L(mm)	W(mm)	T(mm)			/kg	(Rs)
1	Base frame sq.	M.S.	12192	25	1	1	4.69	70	328
2	Fixed support bar	M.S.	230	30	30	2	1.62	80	259
3	Fixed rod	M.S.	440	D20	1	1 2	1.08	80	172
4	Sliding support bar plate(25×5×80)	M.S.	245	50	40	1	3.92	1	
5	Support for dril machine bar	I M.S	. 100	50	10	1	0.3	9 8	0 31
6	Guide hole fixture bar	M.5	š. 70	38	40		1 0.	83	80 60
				Total			1		11

Table no. 6.2 Machining charges

Sr no	Machine	Hours	Rate/hour	Price(Rs)
1	Lathe m/c	1	300	300
2	Boaring m/c	5	500	2500
3	Milling m/c	3.25	500	1625
4	Drilling m/c	1.5	200	300
	To	tal	_1	4725

Table no 6.3 Costing of equipment

Equiptment	Price (Rs)
Pneumatic cylinder	1275
pneumatic solenoid valve	1800
Foot operated valve	900
Pneumatic connector	75
Pneumatic hose	125
Bearing	2500
Flow control valve	400
Hardware	200
Total	7275

Table no 6.4 Fabrication charges

Sr no	Operation	Price (Rs)
31 110	Cutting	3000
	Welding	2000
2	Tapping	300
3	'otal	5300

Table no 6.5 Cost of available component in company

	Price (Rs)
Components	25690
Compressor	3588
Drilling machine	29278
Total	

IGN & FABRICATION OF SEMI AUTOMATIC WORKBENCH FOR HORIZONTAL DRILLING MACHINE

Table no 6.6 Cost analysis

Charges (Rs)
1169
4725
7275
3500
25690
3588
45947







To.

- 1 JUL 2017

The HOD Mechanical Dept.,

K.B.P.C.O.E. Satara.

Subject- Providing sponsorship to your students for project work entitled "Reduction of non value added time and productivity improvement in shell moulding process"

Respected Madam,

We are shell moulding C.I. and S.G. Iron casting manufacturers. We want to improve the productivity of the shell moulding process in terms of quality, cost, time and morality. We provide relevant data to the students and students present an idea to increase productivity and inform us about their work.

The below mentioned students are requesting to work on project "Reduction of non value added time and productivity improvement in shell moulding process". We are giving preliminary permission to them on the organizational terms and conditions. The students will be provided all the relevant data as well as the expenses related to project manufacturing only. Other expense regarding to their accommodation is not the responsibility of the organization.

This is for information only.

Thanking you.

Name of Students:

- . SHELAR AKSHAY SURESH.
- SHELAR ROHAN SANJAY.
- 3. YADAV AISHWARYA UMESH.
- 4. WADETTIWAR PRAJYOT BHASKAR.

College Guide:-

Prof. GHATGE D.A.

Mr. Vahalkar D.V.

General Manager.

Mutha Founders Pvt. Ltd.



MUTHA FOUNDERS PVT. LTD.





To,

25 MAR 2018

The HOD Mechanical Dept.,

K.B.P.C.O.E. Satara .

Subject-Completion letter of project "Reduction of non value added time and productivity improvement in shell moulding process"

Respected Madam,

This letter is to inform that Mr. SHELAR AKSHAY S., Mr. SHELAR ROHAN S., Ms. YADAV AISHWARYA U. and Mr. WADETTIWAR PRAJYOT B.; students of Karmaveer Bhaurao Patil College of Engineering, Satara have successfully completed their project on "REDUCTION IN NON-VALUE ADDED TIME AND PRODUCTIVITY IMPROVEMENT IN SHELL MOULDING PROCESS" under the observation of Mutha Founders Pvt. Ltd. Satara. They had undergone their project in Shell Molding Department and Sand Coater Department under the guidance of Mr. VAHALKAR D.V. (General Manager) and Mr. GHATGE D. A. (Asst. professor) college guide.

During the period of project they were found inquisitive and hardworking and total. Their overall performance and behavior during the project is found to be satisfactory.

We wish them all success for their future endeavors.

Mr Vahalkar D.V.

General Manager,

Matha Founders Pvt.Ltd.

74

CERTIFICATE

(TO WHOM IT MAY CONCERN)

This is to certify that MR. SHELAR AKSHAY S., Mr. SHELAR ROHAN S., Ms. YADAV AISHWARYA U. and Mr. WADETTIWAR PRAJYOT B.; students of Karmaveer Bhaurao Patil College of Engineering, Satara have successfully completed their project on "REDUCTION IN NON-VALUE ADDED TIME AND PRODUCTIVITY IMPROVEMENT IN SHELL MOULDING PROCESS" under the observation of Mutha Founders Pvt. Ltd. Satara. They had undergone their project in Shell Moulding Department and Sand Coater Department under the guidance of Mr. Vahalkar D.V. (General Manager).

During the period of project they were found inquisitive and hardworking.

Their overall performance and behavior during the project is found to be satisfactory.

We wish them all success for their future endeavors.

Mr. Manish Munot Project Guide Manager

[Shell Moulding]

Mr. Pawar D. A. Project Guide Manager

[Sand Coating]

Mr. Asbe C. S. Mr. Vahalkar D.V. Foundry Manager General Manager

Mutha Founders Pvt. Ltd. L-7,Addl. M.I.D.C.,SATARA-4

Mechanite Engineering Solutions

M20 Actitional NIDC

latara - 40:004, Maharashtra, India

ld -01 Jlo2 26036 / 925 / 925 1 info@methanite.com 1 swww.methanite.com



To, Principal

K.B.P. College Of Engineering,

Satara.

Subject :Sponsorship for project work

Respected Sir,

With reference to your letter, regarding above subject, the management has permitted for dissertation work on "Design and Manufacturing Of Dressing Attachment for Grinding Machine" for one year period for students as mentioned below.

- I. Miss. Anjali Anil Patil
- 2. Mr. Azim Rafik Kazi
- 3. Mr. Ajit Manik Jadhav
- 4. Mr. Omkar Balku Mane

Project guide - Prof. D.A.Ghatge Company guide - Mr. N.V.Devre

Please note that the discipline of company should not be hampered anyway we will give you necessary operation and guidance during project work.

With best regards

For Mechanite Solutions Pvt. Ltd., Satara.

Mr.Sumedh Pethkar

Director

Mechanite Solutions Pvt. Ltd., Satara

MS. MECHANITE ENGINEERING SOLUTIONS

M-21, ADDI. M.I.D.C., SATARA

TEL. No.:240134 / 240926



Mechanite Engineering Solutions

M20, Additional MDC

Satara - 435004, Maharashtra, India

fel: (4) - 716.7 (40) W / 925.7 926.1 Info6/methanite com 1 www.methanite.com



CERTIFICATE

This letter is to certify that the students of K.B.P.C.O.E. Satara studying in final year of mechanical engineering had successfully completed project entitled "Design and Manufacturing of dressing attachment for grinding machine". They started their project on 24 Aug 2017 and completed on 15 March 2018.

The students were sincere and honest in their work approach and showed keen interest and good initiative in task assigned to them. The total cost of the project including labour, material and the machining is about 18000 Rs. With proper exposure and sound guidance they can make their mark in the industry.

We wish them all the best for their career.

Name of the students:-

- 1. Miss. Anjali Anil Patil
- 2. Mr. Azim Rafik Kazi
- 3. Mr. Ajit Manik Jadhav
- 4. Mr. Omkar Balku Mane

Project guide - Prof. D.A.Ghatge Company guide - Mr. N.V.Devre

Yours faithfully,

Mechanite Solutions Pvt. Ltd. Satara.

Mr. Sumedh Pethkar

SEETHANTE ENGINEERING SOLUTIONS

121, ADDI. M.I.D.C., SATARA

TEL No.:240134 / 240926



4.2 COST ANALYSIS

Cost of Inhouse Items

Table No 4.1.11

Sr No.	Item Description	Qı y	Length	Width	Thickness	Wt.	Unit Rate	Total Cost
01	Base plate	1	180	115	15	2.42	190	460
02	Middle block	1	180	50	35	2.47	190	470
03	Rectangular block	1	160	80	80	8.03	190	1530
04	Sliding cylinder	1	234	D50	7000	4.03	190	770
05	Front plate	1	80	80	5	.75	190	140
06	Back plate	1	80	80	15	.75	190	140
07	Oiless bush	2	70	OD60	ID50		2500	5000
08	Dresser stick holder	1	50	OD34	ID20	.6	190	115
09	Dresser stick	1	150	D20		.8	190	150
10	Nut	12			М8		15	180
		3			M10		20	60
11	Locknut Washer	3			M10		25	75
12	Spring	1	150	OD19.5			80	80
13	Кеу	1	93	5			80	80
t =							TOTAL	9250

Inhouse Manufacturing Activities

Table 1 to, 4.1.12

a lo	machining Description	Total time spend on machine in hours	Unit Rate per hour	Cost
,	VMC.	5	1000	5000
9	LATHI	2	150	300
	GRINDING	3	100	300
4	MILLING	2	80	80
5	DRILLING	2	- 150	300

Total Cost of Dresslop Attachment - [A] (Total Amount for Bought Out Items) = 9250

[B] (Total Amount for Inhouse

Manufacturing activites) =5980

Total Cost Of Dressing Attachment - A+B + 9250+5280 =15230 Rupees

SPONSORSHIP LETTER

aar industries

Anuja Automation & Robotics Pvt. Ltd.

173B Jan Malhar Society, Sadar Bazar (Khed), Satara,

Maharashtra India 415002

E-Mail:- and red reference and study of great con-

Mob. - +91 9881280971, +91 9762672843



Date: 2rd August 2017

Subject: Final year Mechanical BE Project sponsorship.

To.

- 1. Mr. Kadam Vivek Ganesh
- 2. Mr. Patel Shahrukh Muner
- 3. Mr. Mardhekar Mayur Rajaram
- 4. Mr. Kadam Ruturaj Dhananjay

Anuja Engineering is a well-established modern tool room who specializes in design, development and manufacturing of, Automation & Robotics goods and Other Engineering products.

We are pleased to extend an offer to work with us on a manufacturing of a Cotton Ginning Machine. We hope you will utilize this opportunity to get hands on experience with real world project implementation.

The project will be unpaid. Manufacturing of the attachment will be under our guidance. We look forward to work with all of you.

FOR AAR INDUSTRIES

PROPRIETOR (H.H.KAKADE)

(SEAL)

Mr. Nitin Kakada

(Executive Director)

LETTOR OF APPRECIATION

LETTER OF APPRECIATION

This Certificate is awarded to

- 1. Mr. Kadam Vivek Ganesh
- 2. Mr. Patel Shahrukh Muner
- 3. Mr. Mardhekar Mayur Rajaram
- 4. Mr. Kadam Ruturaj Dhananjay

In appreciation and recognition of the contribution you have made in Anuja Industries Pvt. Ltd. Over the year 2017-2018

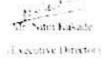
Your enthusiasm and ability to fulfill the commitment is appreciable. We appreciates your efforts and assistance you delivered

During the period of your presence you was found inquisitive and hardworking. Your overall performance and behavior is found to be satisfactory.

We wish you all success for your future endeavors

FOR AAR DICUSTRIES

PROPRIETOR (LILIANADE)



4.3 a) RAW MATERIAL COST

The total raw material cost as per the individual materials and their corresponding rates per kg is as follows.

Total raw material cost = Rs 7412/-

SR NO.	DESCRIPTION	DIMENSIONS (mm)	QTY	COST
T.	Angle Bar	6400x40x4	01	1250
2.	Motor	1 HP	1	3500
3.	Wood	600 x 100 x 100	01	900
4.	Plywood	800 x 500 x 12	01	350
5.	Nut and Bolts	M6	16	50
6.	Screw	M3	16	32
7.	Nails	1 inch	68	30
8.	Bearing	SAE6006 \$30	8	800
9.	Belt	2 meter	5	100
10.	Other			400
	TOTAL			7412

Table No 4.3 a) Raw Material Cost

4.3 b) MISCELLANEOUS COSTS

SR.NO.	OPERATION	COST(Rs)
	Lathe Machine	1200
2	Drill Machine	600
3	Grinding Machine	300
4	Welding Machine	800
	TOTAL	2900

Table No 4.3 b) Miscellaneous Costs

4.4 TOTAL COST OF PROJECT

Total cost = Raw material cost + Miscellaneous Cost +Overheads

= 7412 + 2900 + 500s

Hence the total cost of project = Rs 10,812/-

4.5 LIST OF MACHINERY AND EQUIPMENT

Following Operations performed during project work

4.5 a) Metal cutting

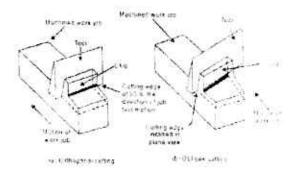


Fig. 4.5 a) Metal cutting operation

K.B.P. College Of Engineering, Satara.

Page 38

Balaji Construction Machines and Spares

Regd. off.: Plot No. 8, Somanath Colony, Sambhajinagar,

Degaon Road, Satara- 415004.

Ph. +91(2162)246234 Plot No. L-60, Addi. MIDC Satara-415 004 Office: Ph. +91(2162)240550 / 240904 / 240905

Date: 07/04/2018 ef:

To,

The HOD Mechanical Engineering

K B P College Of Engineering Satara

Subject - Providing sponsorship to your students for project work entitled "Design and manufacturing of Brick Jaw Crusher."

Respected sir we are manufacturing compact jaw crusher. Now we want to make machine which is used to reduce wastage of defective bricks. This machine use to recycle defective brick material. We provide required relevant data to the students and students present the design related to that machine and inform us about working of the Brick jaw crusher machine.

The below mentioned students are requesting to work on project "Design and manufacturing of Brick Jaw Crusher." We are giving preliminary permission to them on the organizational terms and conditions. The students will be provided all the relevant data as well as the expenses related to the project manufacturing only. Other expense regarding them accommodation is not the responsibility of the organization.

This is for your information only.

Thanking you.

Name of the students:

1] Salunkhe Tushar B.

Zodge Prafull S.

Sutar Santosh P.

Regards

ions Pvt.Ltd. Satara For, Bala

Balaji Construction Machines and Spares
Regd. off.: Plot No. 8, Somanath Colony. Sambhajinagar.

Regd. off.:

Degaon Road. Satara- 415004.

Ph. +91(2162)246234

Office:

Plot No. L-60, Addl. MIDC, Satara-415 004. Ph. +91(2162) Cusheralo (Vanager)

Date: 16/4/2019

LETTER OF COMPLETION

This is to certify that,

Mr. Salunkhe Tushar B., Mr. Zodge Prafull S., Mr. Sutar Santosh P. Students of Karmaveer Bhaurao Patil College of Engineering, Satura have successfully completed their project on

in "BAL'AJI CONSTRUCTION Fvt. Ltd. SATARA" They had undergone their project in lifting purpose under the guidance of Mr. PRANAV GONUGADE(General) Manager) and Prof.Mr.Sawant K.H. (Guide).

During the period of project they were found inquisitive and hardworking. Their overall performance and behavior during the project is found to be satisfactory.

We wish them all success for their future endeavors.



COOPER CORPORATION PVT. LTD.



CCPL/HRADMIN/939/2018

05th Feb 2018

To, The Principal, Karmaveer Bhaurao Patil College of Engineering, Sadar Bazar, Satara.

SUBJECT: Regarding approval of sponsorship for RCDC Project.

Ref: Your application ref. no. KBPCOES/2181 dated 03 Jan. 2018

Dear Sir,

After reviewing your recent application, this letter is to confirm that the Cooper Corporation Pvt. Ltd. M.I.D.C. Satara is sponsoring for the RCDC 2018 Project. The company agrees to provide TEAM WOLFPACK, students of mechanical engineering branch from your college with the inkind services and pay amount of Rs. 4.5 lakhs for the design and development of UTV vehicle which will be competing in a national level competition RCDC 2018 held at Bikaner, Rajasthan.

We hope the team will have a great success throughout the event.

Yours Sincerely.

For Cooper Corporation Pvt. Ltd.

N P Deshpande Corporate Head HR & Admin (ARMAVEER BEAU COLLEGE OF ENDIN Sadar Bazar Satura

Inward No.2215

How much port 4 hos

Regd. Office: "NARIMAN HOUSE, M 60-1, ADDL MIDC. POST KODOLI SATARA - 415004. MAHARASHTRA, INDIA. T- +91 2162 240413 / 240272 F- +91 2162 240271 Email contact@coopercorp.in website www.coopercorp.in Marketing Office: No. 301/A, 3rd Floor, City Bay, Boat Club Road, Pune - 411001

T- +020 26160624 Email - tales@coopercorp.in. CIN: U 27101PN1982PTC026229, ISO/TS 16949:2009 स्पेशालिस्ट - साईन बोर्ड, कापडी बॅनर, वॉल पेंटींग, कॉम्प्युटराईज्ड रेडियम नंबर प्लेट, ग्लो साईन बोर्ड, स्टील-ऑल्युमिनियम एम एस अक्षरे, सनकंट्रोल फिल्म, न्यूऑन साईन बोर्ड, डिजीटल बोर्ड, वाढदिवसाचे डिजीटल कटाऊट.

पता .- १०० अ साई मंदिराजवळ, गोडोली, सातारा. ऑफिस - (०२१६२) २२२६५४. मोबा.९४२३२६२५९१, ९३७०३८३०६६.

जा. क्र.

दि,

To,

The HOD Mechanical Engineering,

KarmaveerBhaurao Patil College of Engineering,

Satara.

Subject: Providing Sponsorship to your students for Project Work entitled "Design and Manufacturing of An Automatic Thermocol Cutting Machine."

Respected Sir/Madam,

We are manufacturer of Letters, Digital Boards, Sign Board & Number Plates. Now we want to improve system related to Thermocol Cutting operation of desired 2D shapes. So that insist An Automatic thermocol cutting machine. We will provide required relevant data to students. Students presented Design related to project & working principle of project.

The below mentioned students are requesting to work on project "An Automatic Thermocol Cutting Machine." We are giving preliminary permission to them on the organisational terms and conditions. The students will be provided all the relevant data as well as the expenses related to the project manufacturing only. Other expenses regarding their accommodation is not the responsibility of the organisation.

This is for your information only.

Thanking you.

Name of Students:

- AkshayKrishnat Kadam
- Omkar Prakash Kadam
- 3) Abhijeet Ashok Murkute
- 4) Amar Shashikant Patil

Regards

For Tirupati Arts, Satara.

Authorized Signature

क्षपद्धाः आस्ट्रयः रतेसम्बद्धाः



स्पेश्मिलिस्ट - साईन वोर्ड, कापडी वॅनर, वॉल पेंटींग, कॉम्प्युटराईज्ड रेडियम नंवर प्लेट, ग्लो साईन बोर्ड, स्टील-ॲल्युमिनियम एम एस अक्षरे, सनकंट्रोल फिल्म, न्यूऑन साईन वोर्ड, डिजीटल बोर्ड, वाढदिवसाचे डिजीटल कटाजट.

पता - १०० अ साई मंदिराजवळ, गोडोली, सातारा. ऑफिस - (०२१६२) २२२६५४. मोवा.९४२३२६२५९१. ९३७०३८३०६६.

जा. क्र.

CERTIFICATE

वि,

This letter is to certify that the students of KarmaveerBhaurao Patil College of Engineering, Satara studying final year of mechanical engineering had successfully completed project entitled "Design& Manufacturing of An Automatic Thermocol Cuttting Machine." They started their project on 13th Aug 2017 & completed on 28th Feb 2018

The students were sincere and honest in their work approach and showed keen interest and good initiative in task assigned to them with proper exposure and sound guidance. They can make their mark in the industry.

We wish them All the Best for their future career.

Name Of student

- 1) AkshayKrishnat Kadam
- 2) Omkar Prakash Kadam
- Abhijeet Ashok Murkute
- 4) Amar Shashikant Patil

Yours Faithfully

For Tirupati Arts, Satara.

Authorized Signature

पोपांयटर

9. Costing of Material:

Table No. 9.1: Costing of Material

Serial No.	Name of Part	Qty.	Unit Price	Cost (Rs)
1)	Wooden Frame 400mm × 800mm	1	300/-	300/-
2)	NEMA17 Stepper Motor - 5.5Kg-cm Bipolar	2	970/-	.1940/-
3)	Lead Screw - 500min Trapezoidal Ф8mm Thread 2mm Pitch with Copper Nut.	2	590/-	1180/-
4)	Arduino Board with Data Transfer Cable	1	450/-	450/-
5)	CNC shield board without driver set	1	230/-	230/-
6)	A4988 Stepper motor driver	2	190/-	380/-
7)	Hot wire	1981) is	200/-
8)	AC adapter 6Volt 3A.	1	200/-	200/-
9)	3d Printer Lead copper nut for 8mm screw	2	150/-	300/-
10)	Aluminum Flexible Shaft Coupling 5mm x 5mm	2	149/-	298/-
11)	Linear Ball Bearing - SC8UU 8 mm	3	190/-	570/-
12)	Smooth Rods – Hardened smooth rods	5	2	200/-
13)	Battery 450 Wh.	1	200/-	200/-
	Total			6448/





BHARAT ENGINEERING

FABRICATORS, ENGINEERS & ERECTORS

G-2, Old M.I.D.C., Area, Satara- 415004. Tel.:(02162)244162 Mob.: 9822637274

Ref. No.: 2017-18 - 715

Date: 20/08/2017

LETTER OF SPONSORSHIP

This is to certify that,

Miss.Rathod Nakusa Bhimrao, Mr.Sable Abhijeet Prakash,
Mr.Patole Mangesh Machhindra, Mr. Kumbhar Aditya Ashok. Students of
Karmaveer Bhaurao Patil College of Engineering, Satara have successfully
completed their project on "DESIGN MODIFICATION AND

FABRICATION OF HAND PALLET TRUCK" in "BHARAT

ENGINEERING G-2,OLD MIDC,SATARA" They had undergone their project in lifting purpose under the guidance of Mr. Sangram Mohite (General Manager) and Prof.Mr.Jadhav Pravin (Project guide).

During the period of project they were found inquisitive and hardworking. Their overall performance and behavior during the project is found to be satisfactory.

We wish them all success for their future endeavors.



8.1 COST ESTIMATION

Estimating prepares the record showing all the above details, which can be used in material and product. It will require a highly technical knowledge hence an estimator is basically and engineer

COST OF ELEMENT:

- 1) Material cost-6200 Rs/-
- 2) Fabrication cost-2500 Rs/-
- 3) Other expenses or overhead- 1000 Rs/-

OBJECT	PRICE
Jack	2000/-
Wheels	1000/-
Caster wheel	600/-
Bearing	700/-
Total	4300/-

Table No.4

OVERALL COST OF PROJECT:-

4300+9700= 14000/-



Manufacturers of Material Handling Equipments.

Seissor Lift, Dock Ramp, Hydraulic Stacker, Pallet Truck, Goods Lift, Roller Conveye

J-54, Near Indrayani Corner, M.I.D.C., Bhosari, Pune - 411 026 (Maharashtra) Telefax: (020) 27129258, 27128356 Tel.: 271248 E-mail: sales@asmitaengineering.com, amolj@asmitaengg.com

Website: www.asmitaengg.com

Date: 07th October 2017

Subject: Final year project sponsorship

To

- 1. Miss. Mali Aishwarya Kamalakar
- 2. Miss. Bhosale Shweta Lahuraj
- 3. Mr. Ulhalkar Ganesh Chandrakant
- 4. Mr. Mali Pushkaraj Arvind

We are pleased to extend an offer to work with us on a hydraulic material lhandling stacker development. We hope you will utilize this opportunity to get hands on experience with real world project implementation. The following topics shall be assigned to you-

- Deisgn of stacker parameters (excluding drafting)
- Defining manufacturing process for stacker

The project will be unpaid. Manufacturing of stacker shall be in our scope. We look forward to working with all of you.

Asmita Jadhav. Commercial Head, Asmita Engineering Equipments





MUTHA ENGINEERING PVT. LTD. UNIT-III

Works: K-1, Additional M.I.D.C., Degson Road, At Post Kodoll, Satars - 415 004. (M.S.) INDIA.

Regd. Office: 121, Vitthalwadi, Kalbadevi Road, Mumbai - 400 020.

Phone: (02162) 240650

Ref.: 11EPL-11/HR/2018/420

Date: 16/4/2018

12-14-6

CERTIFICATE

To Whom It May Concern

This is to certified that :

Mr. Chavan Swapnil Vilas.

2.Mr. Gaikwad Akshay Shekhar.

3.Mr. Jadhav Umesh Laxman.

4.Mr. Phalke Vikrant Machhindra. a BE (44 year)

students from Karmaveer Bhaurao Patil Collage of Engineering, Satara. They have done Project work on "Development of Exhaust Manifold 3717" with reference to our company in Development dept. For period: 25.12.2017 to 15.04.2018.

During this period they took keen interest in the training and their conduct was found satisfactory.

MUTHA ENGINEERING PVT LTD.UNIT ID

AUTHORISED SIGNATURES



ALSHAY PRECISION COMPONENTS

All Mechanical Activities under one roof. Specialist in - Gear & Sprocket Manufacturing Chandannagar, Kodoli, Satara. C/o Kavade Engineering Works, W-71 Addl.M.I.D.C., Satara- 41500: Mob.: 9673002995/ 92. Ph.: (02162) 240322. Email- akshayprecision@gmail.com

Ref No

Date . 20/01/2012

To.

Head Of Department

Production Engineering Department,

K.B.P.College Of Engineering Satara .

Subject: - Regarding Sponsorship Of Project Work

Respected Sir.

With reference to above subject, Following undersigned students of K.B.P.College Of Engineering of class B.E. production Engineering .As per our requirement they are expected to complete the project work during the academic year 2017-18 .So we are sponsoring the project work as per our need and we are granting the permissions of undertaking a project work in our industries.

Name of the students -

- 1)Chavan Pritam A.
- 2)Jadhav Amit S.
- 3)Jagtap Sagar D.
- 4)Rajage Sushilkumar B.
- 5)Virkar Abhijit K.

Thanking You.

Akshay Presision Component

Proprieto

ndens arking



22 JAN 2017

To. The Principal, K.B.P. College of Engineering, Satara.

Project guide: Prof. Malvade. N. V. Subject: Sponsorship of Project

Respected Sir,

A Project group of following five student of your final year, Production Engineering has been accepted by us for completion of project entitled Analysis of Casting defect and its reduction by using 7 QC tools.

Mr. Rohan Chandrakant Asbe

Mr. Shashank Sanjay Baing

Mr. Vyankatesh Prashant Mallewadikar

Mr. Vaibhav Ashok pawar

Mr. Shubhum Bahubali Shaha

The Project work had started from 21st July 2016 and students are allowed to work on weekends. During this project the students has to follow the following rules and regulation and safety instruction.

- 1. Student should compulsory wear shoes within the company campus
- 2. Student should compulsory wear safety helmets and masks
- 3. Student has to get working with whatever they have been asked to rather than being just observer.
- 4. Student must bring college identity card with him.
- 5. Travelling to attend duty is totally parents responsibility

All facilities required for project will be provided by the company. We agree to make this project available to the college for purpose of viva of the students as and when required by the college.

Regards,

For Mutha Founders Pvt Ltd,

Foundry Manager



Original

Construction of Plastic Road in Kisanveer Sugar Factory, Bhuinj

In Collaboration with

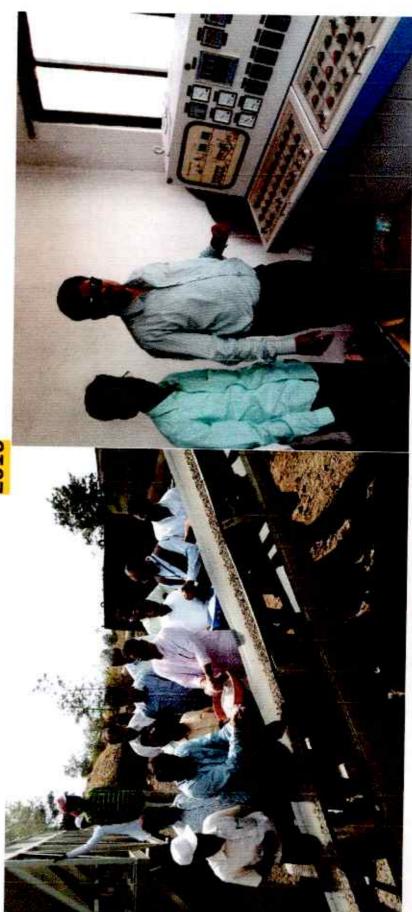
GMGC, Pune and Mayur Industry, M.I.D.C., Satara

Consultancy Project

Project Coordinator: Prof. Anand Tapase

Civil Engineering Department

2016



Construction of Plastic Road in Kisanveer Sugar Factory 16th June 2016

कसन वीर कारखान्यात आता प्लास्टिकचा रस्ता

राज्यात पहिला प्रयोग : पिराव्या, बाटल्या अन् रेपसेचा वापर

ः पर्यावरण प्रदेषमा च विक्रम पाटील, कारबान्याचे लिक मचुका मिद, आर्थिट तत्वा कर्मवीर भाउत्तव पार्ट

गाया सुभारंभ मान्यवरांच्या उपस्थितीत करण्यात आल

भन्य कारखान्यांना अनुकरणीय : हिमिपिरे

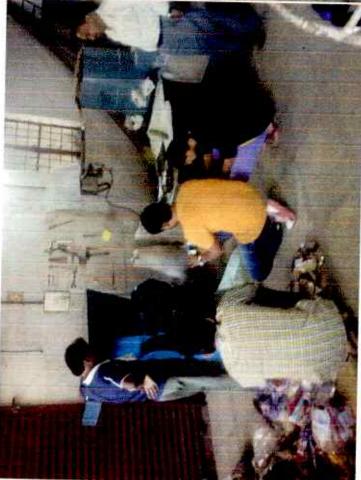
अस्य भारत अभियानांतर्गत प्रयांतरणपुरक प्नास्टिक रस्त्याना केंद्र

THE THE

97











M/s. MAYUR INDUSTRIES

Reprocessor & Reseller of H.M., P.P., H.D., L.D.P.E., Plastic Granules Work & Office - J-2/20. Addl. M.I.D.C.
Satara - 415004, Ph. - (02162) 248226 Ps. No. 9421119226

Ret. M/S / MI/312/2016-17

Date 2 9/06/2016

To
The Principal
Rayat Shikshan Santha's,
Karmaveer Bhaurao Patil College of Engineering, Satara

Subject: Sponsorship to the Pilot Project of Plastic Road

Reference: Your Letter KBPCOES/Civil/Plastic Road/ 4570, dated: 27/06/2016

Respected Sir,

We are happy to offer a sponsorship in terms of Shredded and recycled plastic material in the appropriate size as mentioned in IRC: SP-98-2013 costing Rs. 15,000/- for the Research Pilot Project,

Title of the Project: Construction of Plastic Road in Kisanveer Sugar Factory, Bhuinj, Satara

We are providing 100% of the material in the appropriate norms as per the quantity

and size discussed with the Project-Incharge Prof. Anand Tapase from your institute.

We are happy to be associated with you as a part of this Pilot Project which is beneficial to the society.

This is for your information and further procedures.

Thanking you.

TO THE PARTY OF TH

Shri. B.N. Wanjari Mayur Industries M.I.D.C., Satara



Karmaveer Bhaurao Patil College of Engineering, Satara.

Sadar Bazar, Near RTO Office, Satara, Maharashtra State (INDIA) Pin - 415 001. Founder: Padmabhushan Dr. Karmaveer Bhaurao Patil (D.Litt.)

[Approved by AICTE, New Delhi, DTE, Maharashtra State - Affiliated to Shivaji University, Kolhapur]

website.www.kbpcoes.edu.in Tele Fax - 02162-235767

E-Mail: office@kbpcoes.edu.in

Phone: +91 2162 230636 / 235767 / 233005

Ref. No.: KBPCOES/Civil/Plastic Road/4570

DATE: 27/06/2016

Principal

प्रती.

श्री. बी. एन. वंजारी

मयूर इंडस्ट्रीज,

एम.आय.डी.सी. सातारा.

विषय:- किसनवीर साखर कारखाना भुईज येथे अंतर्गत पोहोच रस्ता हा प्लास्टिक मिश्रीत डांबरीरोड करणेकामी लागणारे टाकाऊ प्लास्टिक आपल्याकडून प्रायोजक तत्वावर्ती मिळणेबाबत.

संदर्भ:- किसनवीर साखर कारखाना भुईंज यांचे पत्र, क्र. ADM/CIVIL/२०१६-१७/१७४७, दिनांक: 3905/30/30

महोदय.

विषयांकित किसनवीर साखर कारखाना भुईज येथे अंतर्गत पोहोच रस्ता हा प्लास्टिक मिश्रीत डांबरीरोडचे काम करण्याची वर्क ऑर्डर (Work Order) ही रयत शिक्षण संस्थेच्या आमच्या कर्मवीर भाऊराव पाटील अभियांत्रिकी महाविद्यालयाला संदर्भरांकित पत्राप्रमाणे मंजूर झाली आहे. सदर साखर कारखान्या अंतर्गत पोहोच रस्ता डांबरीकरण करणेकामी, टाकाऊ प्लास्टिकचा वापर डांबरीकरण करण्यासाठीचे तंत्रज्ञान आमच्या संस्थेकडून मागितले आहे.

टाकाऊ प्लास्टिकचा वापर रस्ता डांबरीकरणासाठी देश पातळीवर बऱ्याच ठिकाणी केला गेला आहे, त्याच प्रमाणे टाकाऊ प्लास्टिकचा वापर कसा व किती प्रमाणात करावा हयासाठी इंडिअन रोड कॉग्रेस (Indian Road Congress, IRC) ने मार्गदर्शन सूचना (Guidelines) देखील प्रसिद्ध केल्या आहेत.

रयत शिक्षण संस्थेच्या आमच्या कर्मवीर भाऊराव पाटील अभियांत्रिकी महाविद्यालयामधील स्थापत्य विभागामधील विध्यार्थी ह्याच टाकाङ प्लास्टिक पासून टिकाङ रस्ते विषयावर प्राध्यापक आनंद तपासे ह्यांच्या मार्गदर्शनाखाली संशोधन व साताऱ्यात कचऱ्यातून मिळणारे टाकाऊ प्लास्टिकच्या प्रमाणाबदल माहिती गोळा करत आहेत.

आम्ही या ठिकाणी नम्मपूर्वक सादर करू इच्छितो की टाकाऊ प्लास्टिकचा वाढत चाललेला विळखा व पर्यावरणाचा होत असलेला ऱ्यास रोखण्यासाठी, टाकाऊ प्लास्टिकचा रस्ता डांबरीकरणासाठी योग्य प्रमाणात उपयोग केल्यास, रस्ता अधिक टिकाऊ होईल, निधीमध्ये बचत होईल. तसेच आमच्या महाविद्यालयामधील स्थापत्य विभागामधील विध्यार्थी व संबंधित प्राध्यापक यांना संशोधन

करण्याकरिता किसनवीर साखर कारखाना भुईंज मध्ये संदर्भांकित पत्रास अनुसरुन, जिल्ह्यात एक पतदर्शी (Pilot Project) प्रकल्प म्हणून काम करणेची संधी आम्हास मिळाली आहे.

तरी कृपया वरील सर्व बाबींचा विचार करून, सदरचा नाविन्यपूर्ण व पर्यावरण पूरक असा उपयुक्त प्रकल्पासाठी, तसेच जिल्ह्यात एक पतदर्शी (Pilot Project) प्रकल्प म्हणून आमच्या महाविद्यालया बरोबर आपण देखील सहभागी होऊन टाकाऊ प्लास्टिक पासून टिकाऊ रस्ते विषयावरील, रस्ता डांबरीकरणासाठी लागणारे टाकाऊ प्लास्टिक आपल्या इंडस्ट्रीजकडून प्रायोजक तत्वावर्ती स्वच्छ व योग्य आकारात बारीक करून द्यावे, ही विनंती.

आपला विश्वासू,

प्राचार्य

कर्मवीर भाऊराव पाटील अभियांत्रिकी महाविद्यालय सदरबझार सातारा-४१५००१

प्रत माहितीस्तव सविनय सादर

 प्रा. आनंद तपासे, प्रोजेक्ट इन्चार्ज (Project Coordinator) स्थापत्य विभाग, कर्मवीर भाऊराव पाटील अभियांत्रिकी महाविद्यालय, सातारा



Office Address: 99, RaviwarPeth, near Gite Building, Behind KarishmaComplex.Satara41500

Phone No.:02162-227076 / 727607207: E-mail: admin@weplus.co.in web: www.weplus.co.in

Sponsorship

Following Student of Karmveer Bhaurao Patil College of Engineering Satara has appoint to Live Project Work on "Online Web Service", " Dynamic Test reconfigurations for Composite Web Service " in this Organization on the offered as "We Plus Technology Pvt. Ltd." during the stipulated period from October 2016 to March 2017.

This certificate is issued on their request for partial fulfillment of award of Final Year Computer Engineering (BE Computer).

We wish them all the best for their future endeavors.

Miss. Shweta Dilip Ballal Miss. Nayan Sonaji Bhivarkar

Thanking You,

FOR WE PLUS TECHNOLOGY PVT. LTD



Office Address: 99, Raviwar Peth, near Gite Building, Behind Karishma Complex. Satara 415001

Phone No. 02162- 227076 / 7276072076 E-mail: admin@weplus.co.in Website: www.weplus.co.in

We Plus Technology

Sponsorship

Following Student of Kurmveer Bhaurao Patil College of Engineering Satara has appoint to Live Project Work on "Online Web Service", "Phoentx Agenesis" in this Organization on the offered as "We Plus Technology Pvt. Ltd." during the stipulated period from August 2016 to March 2017.

This certificate is issued on their request for partial fulfillment of award of Final Year Computer Engineering (BE Computer).

We wish them all the best for their future endeavors.

Miss. Pratiksha Pradip Ambekar Miss. Tejashree Mohan Dalavi Miss. Amruta Anandrao Taral Miss. Archana Maruti Virkar

Thanking You,

FOR WE PLUS TECHNOLOGY PVT. LTD.

Authorily Signature

Date: -10/04/2017

Placer Satara

www.weplus.co.in

We Plus Technology Pvt. Ltd.

Etectionis rengg



37,A Rajaspura Peth,Satara. 02162-227057,240546

Date: 19/01/2017

Student Name : Aasiya Aslam Tamboli

Sponsor Name: Hira Buildcon.

Hira Buildcon agrees to pay all expenses for the project mentioned below.

Name of Project : CAN BUS CONTROL SYSTEM.

Name of student: Aasiya Aslam Tamboli.

Class: ME Electronics- II

College Name : K.B.P. College of Engineering, Satara.

If you have any questions please contact me directly.





37,A Rajaspura Peth,Satara. 02162-227057,240546

To.

Date: 19/01/2017

The HOD,

Electronics Department,

KBP College of Engineering, Satara

Dear Sir,

Subject: About confirmation of our Sponsorship for the final year project of academic year 2015-2016

With reference to subject matter, we hereby confirm that we shall sponsor the project for the following student of your college studying in first year of ME Electronics.

Name: Aasiya Aslam Tamboli

Name of project: CAN BUS CONTROL SYSTEM

AMOUNT: Rs 45000/-

Thanking You

With Best Regards





37/A Rajaspura Peth, Satara. 02162-227057, 240546

Date: 19/01/2017

Student Name: Shahista Iqbal Nadaf

Sponsor Name: Hira Buildcon.

Hira Buildcon agrees to pay all expenses for the project mentioned below.

Name of Project : IMPROVING CHARGING EFFICIENCY WITH WORKLOAD SCHEDULING IN ENERGY.

HARVESTING EMBEDDED SYSTEM

Name of student: Shahista Iqbal Nadaf

Class: ME Electronics- II

College Name: K.B.P. college of engineering, Satara.

If you have any questions please contact me directly.





37,A Rajaspura Peth,Satara. 02162-227057,240546

To.

Date: 19/01/2017

The HOD,

Electronics Department,

KBP College of Engineering, Satara

Dear Sir,

Subject: About confirmation of our Sponsorship for the final year project of academic year 2015-2016 With reference to subject matter, we hereby confirm that we shall sponsor the project for the following student of your college studying in first year of ME Electronics.

Name: Shahista Igbal Nadaf

Name of project: IMPROVING CHARGING EFFICIENCY WITH WORKLOAD SCHEDULING IN ENERGY

HARVESTING EMBEDDED SYSTEM

AMOUNT: Rs 45000/-

Thanking You

With Best Regards





CIN: U29299PN1986PTC038512

Spavy Fitness Equipments Pvt. Ltd.

B-21, Old MIDC. SATARA - 415 004 Tel.No. (02162) - 244425 Email contact@spavyfitness.in Mob : 9822637274, 9881109163

Mechanical Engi FIRST OCCUPIE CERTIFIC STREET ISO 9001:2008

REF NO.- SFEPL/16/17204

DATE-21,08,2016

To.

The Director.

Karmayeer Bhaurao Patil College of

Engineering Satara.

Sub: Acceptance Letter For Industrial Project Work.

The students of Karmaveer Bhaurao Patil College of Engineering Satara, had joined our organization from 6th aug 2016 for project Entitled "Tube Notch Cutting Machine."

(Name and sign of students)

- 1. Pawar Sushil Sanjay
- 2. Shintole Ajinkya Rajiv
- 3. Khandare Jayesh Suresh
- 4. Gaikwad Annaso Vitthal

Yours Faithfully,

SPAYY INDUSTRIES PVT.LTD. Spavy Fitness Equipments Pvt. Ltd. B-21, Old MIDC, Satara Ph. (02162) 244425

AUTHORISED SIGNATURE









Sept 18^{th,} 2016

To.

Head of the Department

Mechanical Engineering,

KBP Engineering Collage, Satara.

Subject: - Sponsorship for Final year project entitled "Shredding Machine"

Dear Sir,

The following students of final year degree in Mechanical Engineering College had approached for their final year project entitled "Shredding Machine"

The project is sponsored by Top Gear Transmissions. It will designed and fabricated in our premises as per their specifications.. They had undergone Project from 11th Aug, 2016 to 20th March, 2017 in Production Department under guldance of Mr. Shrikant Pawar (CMD).

- Nandini Mangesh Jadhav
- 2) Nikita Sachin Joshi
- 3) Akshay Bharat Mahadik
- 4) Siddharth Dinkar Pawar

For Top Cont Transmissions,

Mr. Shrikant Pawar Managing Director





15th Mar. 2017

CERTIFICATE

(To whomsoever it may concern)

The following students of, BE. Mechanical from KBP Collage of Engineering, Satara has successfully completed their final year Project "Shredding Machine" in our organization. They had undergone Project from 11thAug, 2016 to 19thJan, 2017 in Production Department Under guidance of Mr.Shrikant Pawar (CMD).

- 1) Nandini Mangesh Jadhav
- 2) Nikita Sachin Joshi
- 3) Akshay Bharat Mahadik
- 4) Siddharth Dinkar Pawar

During the above period we found all sincere & hard working and they taken proper initiative and efforts towards completing their Project.

"WE WISH ALL THE BEST FOR THEIR FUTURE CAREER"

For Top Gear Transmissions,

Vikas Sarjerao More Manager- HR & Admin





TGT/2017/146

27th March 2017

TO WHOM SO EVER IT MAY CONCERN

Appreciation Certificate

This is to certify that following students of "Karmaveer Bhaurao Patil College of Engineering, Satara" have successfully completed their final year project in our company "Top Gear Transmission Pvt. Ltd," Addl. MIDC, Satara from 15th August 2016 to 19th January 2017. They worked very hard and have successfully completed the project of "Design and Development of Shredding Machine" under stipulated time and constrains efficiently. This achievement is really appreciable. This project was completed under the guidance of Mr. Shrikant Pawar, Managing Director of Top Gear Group & Prof. D.A. Ghatge.

The names of students are as follows:

- Jadhav Nandini Mangesh
- Joshi Nikita Sachin
- Mahadik Akshay Bharat
- Pawar Siddharth Dinkar

During the above mentioned period their conduct and performance was found to be highly satisfactory.

We wish them all the best in their future endeavors.

(Authorised Signatory)

FACTORY: M-8, Additional M.I.D.C., Satara - 415 004. Maharashtra (INDIA) Tel.: + 91 - 2162 - 240 468 Fax: +91 - 2162 - 240 373

Email: sales@topgeartransmission.com | website: www.topgeartransmission.com

REGISTERED OFFICE: M-70, Additional M.I.D.C., Satara - 415 004 | CIN Number: U29130PN2006PTC022121

DESIGN AND DEVELOPMENT OF SHREDDING MACHINE

Cost analysis

Table 6.1 Cost of In-house Materials

Sr No.	Item Description	Qty	Length	Width	Thickness	Wt.	Total Wt.	Unit Rate	Total Cost
01	Baffle plate-1	1	550	545	10	23.98	23.98	42	1008
02	Baffle Plate -2	1	550	545	10	23.98	23.98	42	1008
03	Housing plate	1	550	550	12	29.04	29.04	42	1220
04	Housing cover plate	1	550	550	12	29.04	29.04	42	1220
05	Spacer 1	28	80		28	1.1	30.8	42	1294
06	Spacer 2	6	80	3 5 1	6	0.24	1.44	42	60
07	Pullcy Cover	1	300	400	2	1.92	1.92	42	82
08	Gear Blank	2	200	7.6	40	9.8	19.6	42	824
09	Blade	15	275	275	6	3.6	54.45	42	2286
10	Baffles	17	250	90	6	1.08	18.36	42	772
11	Gear cover	1	550	500	2	4.4	4.4	42	185
12	Web plates	11	548	25	2	0.22	2.42	42	102
13	End caps	2	1	-	100	-		15	30
14	Base Plate	1	853	1070	10	71.64	71.64	42	3010
15	Outlet Plate	3	415	650	5	10.79	32.37	42	
16	Motor Mounting Plate	2	300	300	6	4.23	8.46	42	1360 356
	[.	A] Tot	al Amoun	t for In-ho	ouse Material	S	1		14817

DESIGN AND DEVELOPMENT OF SHREDDING MACHINE

Table 6.2 Cost of Bought Out Materials

Sr No.	Item Description	Qty	Length	Width	Thickness	Wt.	Total weight	Unit Rate	Total Cost
01	Flange Bearing	4		(#Z)		-		1200	4800
02	Motor	1				12	-	-	12000
03	V-Belt	1	Ne.	•	5.00	-	2	200	200
04	Rectangular tube	6	750	50 x 100	2	3.6	21.6	45	972
05	Square tube	3	415	40	2	1.06	3.18	45	144
06	Locknut	4	-	-		-	-	100	400
07	Bush plates for tubes	6	52	102	2	0.08	0.48	42	21
08	Nut & bolts	35	-	-	7	-		7.5	263
09	Locknut washer	4	-	-	-	-	-	50	200
10	Smaller pulley	1		-	-	1.0	-	200	200
11	Larger Pulley	1	194	=	2			450	450
11	Studs	4		-	-	-	-	80	320
10	Nut & Bolts	24					İ	8.5	200
11	Paints	1.5 lit.	-				-	150	225
12	Control switch	1	-	-	184	1.7	-	445	445
13	Shaft	2	900	Ø57	-	19.3	38.64	42	1624
	3000 H-3000	1 Total	Amount	for Boug	tht Out Mate	rials		1	22464

DESIGN AND DEVELOPMENT OF SHREDDING MACHINE

Table 6.3 Cost of In house Manufacturing Activities

īr o.	Item Description	Qty	Length	Width	Thickness	Wt.	Total weight	Unit Rate	Total Cost
1	Structural Frame Fabrication	1	5		.=		250	25	625
2	Gear Manufacturing	2	-	-				600	1200
3	Electrical connections	'1	-21		Ç A ™ a		-	•	300
4	Gas cutting (blade)	17	-	-	*	-	-	35	595
5	Gas cutting (spacer)	34	-	-	-	-	-	15	510
5	Painting	1.5		150	-	-	-	150	225
8	[C]	Total A	Amount o	f Manuf	acturing activ	rities	1		3455

Total Cost of Shredding Machine = [A] (Total Amount of

In-house Materials)

=14817

+

[C] (Total Amount of

Manufacturing activities) =3455

+

[B] (Total Amount of

Bought-out items)

= 22464

TOTAL COST OF SHREDDING MACHINE = A+C+B

= Rs 40,736/-

K.B.P.C.O.E. SATARA.

Dept of Mech. Engg.

Page 53

I** Prize Winner for Cletrict's Best Industrial Award for Year 2007.



ABHIJAT EQUIPMENTS PVT. LTD.

Regd. Off. & Works: 19/4, Molacha Odha, Satara-415 002, Maharashtra (India) Board: 0091-2162-250196, 251091

Cell: 0091-9860129600 Fax: 0091-2162-250596

E.mail: sales@abhijatequipments.com Website: www.abhijatequipments.com

Date: - 25/07/2016

To,
The principal,
KBP College of Engineering
Satara.

Sub: - Sponsorship for project to B.E.Mechanical Student

Dear Sir,

M/S Abhijat equipment Pvt.ltd. Satara is an ISO 9001:2008 certificate unit promoted by qualified and experiment technocrats. The promoters have experience in manufacturing various machine tools like automats, capstan, special purpose drilling machine and CNC machine tools These machine tools are also exported to USA, U.K. middle East countries in addition to indigenous market.

We have very good set up for design and manufacturing of machine tools and are always in development of innovative quality tools.

We are sponsoring a project "DESIGN AND MANUFACTURING OF PART CATCHER ON DEEPAK E-32 CNC MACHINE" to the following final B.E. Mechanical degree students of your inspection.

	Name	Roll No
1.	Mr. Jamdar Rohif Yashwant	24
2.	Mr. Desai Akshay Sharad	10
3.	Mrs.Kadam Amruta Arjun.	28
4.	Mr.Kenjale Akshay Balkrishna	33

Hope this will enhance industry- institute- interaction and promote young budding engineering students.

For Abhijat Equipments Pvt. Ltd

Design Manager

Ist Prize Winner rict's Best Industrial Award



Regd. Off. & Works: 19/4, Molecha Odha, Satara-415 002, Maharashtra (India)

Board . 0091-2162-250196, 251091

Cell: 0091-9860129600 Fax: 0091-2162-250596

E.mail: sales@abhijatequipments.com Website: www.abhijatequipments.com

Date: - 09/04/2017

CERTIFICATE

This is certifying that, the following Final year B.E. Mechanical students of KBP College of Engineering Satara.

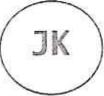
	NAME	EXAM SEAT NO
1	Mr. Desai Akshay Sharad	
2	Mr. Jamdar Rohit Yashwant	46807
3	Mrs. Kadam Amruta Arjun	46818
4	Ms. Kadam Amruta Arjun	46822
*	Mr. Kenjale Akshay Balasaheb	46827

Have successfully completed the project "DESIGN AND MANUFACTURING OF PART CATHER ON DEEPAK E-32 CNC MACHINE", in shortest time span.

In this entire project work execution, we found above students are innovative, hardworking and sincere.

For Abhijat Equipments Pvt.Ltd.

Design Manager



JK INDUSTRIES

12-12-1

Works: SLU W-43 Addi M.I.D.C. Satara, Maharashtra. Mob-9011051405

Office: Talathi Nagar, Godoli, Satara. Email:alankarsjagadale@gmail.com

To,

The Principal

Karmaveer Bhaurao Patil College of Engineering,

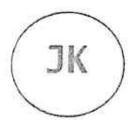
Satara -415001

Subject: Sponsorship for project to B.E. Mechanical students.

Dear Sir,

This is to inform you that our company M/S JK Industries Satara established in the year 2002 and since having specialty in all type of tool room. We are sponsoring a project of "Design & manufacturing of Copy Turning Mechanism for Rough Turning Operation" to the following students studying in final year B.E. Mechanical of your institute.

Name	Roll Number
1] Bavalekar Abhishek Arun	04
2] Jadhav Aniket Rajendra	18
3] Kadam Rajat Sahebrao	29
4] Nalawade Akshay Bhanudas	43
Place: Satara	for JK Industries Car
Date: 17/08/16	Mr. Jagadale Alankar S. (Manager)



JK INDUSTRIES

Works: SLU W-43 Addi M.I.D.C. Satara, Maharashtra. Mob-9011051405

Office: Talathi Nagar, Godoli, Satara. Email:alankarsjagadale@gmail.com

CERTIFICATE

This is certifying that the following students of B.E.Mechanical class of Karmaveer Bhaurao Patil College of Engineering, Satara have successfully completed project work of "Design & manufacturing Copy Turning Mechanism for Rough Turning Operation" in our industry. The Machine is tested and working satisfactorily. Their behavior in our firm was excellent during their project work for period from Aug - 2016 to Feb-2017.

- 1] Bavalekar Abhishek Arun
- 2] Jadhav Aniket Rajendra
- 3] Kadam Rajat Sahebrao
- 4] Nalawade Akshay Bhanudas

The Copy Turning Machine is used for the finishing of jobs of our customer company. We wish them all best of luck and bright prospectus in their future career.

For J K Industries,

Mr. Jagdale A. S.

(Manager)

Chapter No. 4

Cost Analysis

Total cost of the project included cost of raw materials, machining charges and cost of purchased components. The machining charges include the labor as well as machining inputs or the charges. The details of the expenditure is described below:

4.1 Cost of Raw Materials:

Table No. 4.1 Cost of Raw Materials.

Sr. No.	Components	Material	Weight (kg)	Qty	Rate (Rs/kg)	Cost (Rs)
A)	Main Slide				, 0,	(
1	Cylinder Mounting Plate	MS	1.8	1	55	99
2	Base Slide	MS	16.2	1	55	484
3	Slide	20MnCr5	4.8	2	99	950.4
4	Keeper Plate	EN8	2.2	2	75	331.2
5	Hex	MS	1.2	1	60	72
B)	Integrated Slide					
1	Slide Pusher	MS	1.1	1	55	60
2	Cylinder Mounting Plate	MS	1.8	1	55	99
3	Base Slide	MS	12.8	1	55	704
4	Keeper Plate	EN8	4.8	2	75	720
		0			Total cost	3,519.6



REF. NO. - KTPL/PER/16-17/20 DATE - 24.09.2016 Head Office: W-85, Addl. MIDC, Satara - 415004 MAH (INDIA)

Tel: (02162) 240803, 240804, 240808

Works: J-12, Addl. MIDC, Salara - 415004 MAH (INDIA)

Tel: (02162) 240806 Fax: (02162) 240805

Web: www.kavitsu.com / Email: purchase@kavitsu.com

To,
The Head of the Department,
Mechanical Engineering,
K.B.P. College of Engg. Satara.

Subject :- Acceptance letter for Industrial Project Work.

Dear Sir.

Following students of K.B.P.C.O.E.S studying in final year of mechanical engineering had approached for their final year project entitled "Gear surface grinding and deburring machine".

The project is sponsored by Kavitsu Transmissions Pvt. Ltd. and it will be designed and manufactured in our premises as per their specifications. They will be undergoing the project work from 1st Aug 2016 to 20th March 2017.

Name and signature of students:-

- 1.Omkar Patil
- 2.Akshay Purohit
- 3.Kunal Kittur
- 4. Shiyani Sabale
- 5.Bhagyashri Pharande

Yours Faithfully,

For KAVITSU TRANSMISSIONS PVT. LTD.

ABHAY SATPUTE

MANAGER HR & ADMIN



Head Office: W-85, Addl. MIDC, Satara - 415 004, MAH (INDIA)

Tel : (02162) 240803, 240804, 240805, 240308

Works J-12, Addl. MIDC, Satara - 415 004, MAH (INDIA)

Tel (02162) 246805 Web : www.kavilsu.com

: marketing@kavitsu.com

CIN NO. U31103PN2000PTC015653

Email

REF. NO. - KTPL/PER/GEN/16-17/24 DATE - 30.03.2017

CERTIFICATE

This letter is to certify that the students of K.B.P.C.O.E.S studying in final year of mechanical engineering had successfully completed project entitled "Design and development of gear surface and teeth deburring machine." They started their project on 1st Aug 2016 and completed on 20th March 2017.

The students were sincere and honest in their work approach and showed keen interest and good initiative in task assigned to them. With proper exposure and sound guidance they can make their mark in the industry.

We wish them all the best for their future endeavors.

Name of students:-

- 1.Omkar Patil
- 2. Akshay Purohit
- 3.Kunal Kittur
- 4. Shiyani Sabale
- 5.Bhagyashri Pharande

Yours Faithfully,

For KAVITSU TRANSMISSIONS PVT. LTD.

ABHAY SATPUTE

MANAGER HR & ADMIN

SATARA P

PUNE OFF Kedai Empire, Off.No.4.3 Floor Near-Poud Phata, Flyoker Bridge, Karve Road, Erandwane, Pune 411 038, MAH (India) Tel., +91-020-25450404 / 805 Tel.Fax +91-020-25450404 Email: pune@kavitsu.com

Email: hr@kavitsu.com, purchase@kavitsu.com, accounts@kavitsu.com, quality@kavitsu.com

Table 6.3 Cost of Inhouse Items

Sr. No.	Item Description	Qty	Length	Width	Thick- ness	Weight	Total weight	Unit Rate	Total Cost (Rs)
ı	Base Plate -	ı	470	220	16	12.98	12.98	60	780
2	Base Plate -	ı	470	198	16	11.69	11.69	60	702
3	Rail	4	450	25	30	2.65	10.6	60	636
4				Motor Mo	unting P		10.0	00	030
	A. Resting plate	I	142	120	20	2.68	2.68	60	161
	B. Side plate	2	120	35	15	0.50	1	60	60
5			1	l Aotor Mo	unting P	late - II		1	
	A. Resting plate	1	142	120	20	2.68	2.68	60	161
	B. Side plate	2	142	35	15	0.59	1.18	60	71
			Dia.Ø	Length				-	
6	Adapter	2	38	78		0.5	1	60	60
7	Adapter Cap	2	38	12		0.05	0.1	60	6
8	Mandrel	1	55	300		2.06	2.06	60	124
9	Table	1				61.66	61.66	60	3700
		A	Total A	mount of	inhouse	Items			646

Table 6.4 Cost for Bought Items

Sr.No	Component	Dimension	Qty	Unit Rate	TotalCost (Rs)
1	Gear Box	3 KA-03	1	17000	17000
2	Motor	3 phase induction motor, Base mounted, 0.5 HP, 1440 rpm.	2	5324	10648
3	Motor	3 phase induction motor, Base mounted, 0.25 HP, 1440 rpm.	1	3412	3412
4	Wire Brush-	Ø8"	1	600	600
5	Wire Brush- II	Ø4"	1	250	250
6	Grub Screw	M6	2	2	4
7	Grub Screw	M8	12	3	36
8	Grub Screw	M4	4	1.5	6
9	Allen Bolts	M8	28	24	672
10	Allen Bolts	M10 X 30	6	34	204
11	Allen Bolts	M10 X 110	6	53	318
12	Allen Bolts	M6 X 18	2	20	40
13	Hex bolts	M8	8	20	160
14	Spring Washer	M8	28	0.75	21
15	Spring Washer	M10	12	0.85	10.2
16	Plain Washer	М8	8	0.2	1.6
		otal Amount of brought out Items			33383

Table 6.5 Inhouse Manufacturing Activities

Sr. No.	Machine	Machining Time in min	Cost / Hour	TotalCost (Rs)
sl	Gas Cutting	300	150	750
2	VMC	700	500	5834
3	Radial Drilling Machine	. 150	150	375
4	Lathe Machine	210	200	700
5	Slotting Machine	35	120	70
6	Tapping	215	60	215
7	Grinding	100	80	134
8	Welding	90	150	225
- '	C] Total Amount of inhor	use manufacturing	activities	8303

Total cost = A+B+C

= Rs. 6461 + Rs. 33383 + Rs. 8303

= Rs 48147/-



Royal ' Lam Ganstha's

armareer Shaurao Paiil College of Engineering, Satara.

ar Bozar, Near RTO Office, Sataro, Chemisa tatra State 2005 A. Pin - 415 951 Lounder: Padmabhushan Dr. Karmayeer Bhaurae Patel (D.Lht.)

the Ail 1E. New Delhi, DTE, Maharathira Uta's - Afficiant to Shire University, Me haput)

cowd abpones odu in SFax - 02162-235767

Dr. Vikram Patil

gutta confice Exposes edulo

Phone : +91 2162 230636 / 235767 / 233005 Ref. No. : KEPTO BS / 16-12 / 160 / 160 / 1672

DATE :27 108 12016

HR

ME THA ENGINEERING.

PAIT JAMPE.

SATARA.

Subject Spotorship for the Project Work

Con sit.

We are groud to introduce ourselves as one of the preetigious will ge in charging water, they and then college is run by Ruyat Shikshan Sanatha Shikara We are at the est remains the banical for should a Civil, Effectionics and Configure branches for four year degree coase at a second se Mechanical and Electronics Engineering. As per university syllabor study is studying in the de-Engineering have to complete a project as part of their curriculant so that they will take a manager of teamwork and students will get an opportunity to put their ideas and innovations and they will earn with a process orientation.

Therefore we wish to depute,

- I. Patil Vaibles Names
- Nadaf Sumaiyya Shahajahan
- 3. Manegoankar Priyanda Jalindar
- 4. Meena Kirankumar Ramlahari
- 5. Marale Sangram Shankar

They are very Sincere and Hardworking students. We request to help them in this matter. We have given them complete instruction to follow all the rules and regulation of your organization rod have in a responsible manner.

Kindly lets have the confirmation as early as possible.

Thanking You,

Principal

Karmaveer Bhaurao Patil College Of Englocering, San



MUTHA ENGINEERING PVT. LTD, UNIT-III

Works: K-1, Additional M.I.D.C., Degaon Road, At Post Kodoli, Satara - 415 004. (M.S.) INDIA.

Regd. Office: 121, Vitthalwadi, Kalbadevi Road, Mumbai - 400 020.

Phone: (02162) 240650

Ref .: MEPL-TI |HK | 2014 | 335

Date: 15/4/2017

CERTIFICATE

To Whom It May Concern

This is to certified that:

1. Miss. Nadaf Sumaiyya Shahajahan.

2. Miss. Nanegaonkar Priyanka Jalindar.

3.Mr. Patil Vaibhav Namdeo.

4.Mr. Marale Sangram Shankar.

5.Mr. Meena Kirankumar Ramlahari a BE (4th year)

students from Karmaveer Bhaurao Patil College of Engineering, Satara. They have done Project work on "Scabbing Rejection of Casting:Manifold 380" with reference to our company in Development dept. For period: 28.09.2016 to 15.04.2017.

During this period they took keen interest in the training and their

conduct was found satisfactory.

We wish to all their future success.

MUTHA ENGINEERING PVT LTD.UNIT III

AUTHORISED SIGNATURES



Chapter No. 4

Cost Analysis

Total cost of the project included cost of raw materials, machining charges and cost of purchased components. The machining charges include the labor as well as machining inputs or the charges. The details of the expenditure is described below:

4.1 Cost of Raw Materials:

Table No. 4.1 Cost of Raw Materials.

Sr. No.	Components	Material	Weight (kg)	Qty	Rate (Rs/kg)	Cost (Rs)
A)	Main Slide	1				
1	Cylinder Mounting Plate	MS	1.8	1	55	99
2	Base Slide	MS	16.2	1	55	484
3	Slide	20MnCr5	4.8	2	99	950.4
4	Keeper Plate	EN8	2.2	. 2	75	331.2
5	Hex	MS	1.2	1	60	72
B)	Integrated Slide					
1	Slide Pusher	MS	1.1	1	55	60
2	Cylinder Mounting Plate	MS	1.8	1	55	99
3	Base Slide	MS	12.8	1	55	704
4	Keeper Plate	EN8	4.8	2	75	720
10000				-1	Total cost	3,519.

4.2 Machining Charges:

The machining charges includes the power input required to the machine and the salary given the worker on the daily basis.

Table No. 4.2 Machining Charges.

Sr. No.	Machine Used	Hours	Rate/ Hour	Cost(Rs)
1	Lathe Machine.	45 min	160	120
2	Milling Machine.	4 hr 30 min	150	675
3	Grinding Machine.	3 hr 5 min	220	678.3
4	Drilling Machine.	9 hr 15 min	120	1,110
5	Tapping Machine.	2 hr 20 min	70	1,423.3
		1	Total Cost	4006.6/-



Date: - 25/07/2016

To, The principal, KBP College of Engineering Satara.

Sub: - Sponsorship for project to B.E. Production Student

Dear Sir,

M/S Abhijat equipment Pvt.ltd. Satara is an ISO 9001:2008 certificate unit promoted by qualified and experiment technocrats. The promoters have experience in manufacturing various machine tools like automats, capstan, special purpose drilling machine and CNC machine tools. These machine tools are also exported to USA, U.K. and Middle East countries in addition to indigenous market.

We have very good set up for design and manufacturing of machine tools and are always in development of innovative quality tools.

We are sponsoring a project "FINISED AND TRANSIT INVENTORY CONTROL" to the following final B.E. Frodu: Hendegree students of your inspection.

Name	Roll No	
Mr. Pushkaraj Devendra Palnitkar	35	
Mr. Atharva Arvinda Kale	22	
Mr. Nikhil Sunil Parmane	36	
	Mr. Pushkaraj Devendra Palnitkar Mr. Atharva Arvinda Kale	

Hope this will enhance industry- institute- interaction and promote young budding engineering students.

For Abhijat Equipments Pvt. Ltd

Production Manager



ABHIJAT EQUIPMENTS PVI. 13D.

Esser Oft & Works 19/4, Molacha Celhal Satara-415 002: Maharashtra (India) Board (1091-2162-250196, 251091 Core (1091-9860129600 Fav. (1991-2162-250596)

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Certificate

Date-26/3/2017

TO WHOMSOEVER IT MAY CONCERN

This is to certify that Mr. Atharva A. Kale, Mr. Pushkaraj D. Palnitkar and Nikhil S. Paramane, the students of Production Department, Karmaveer Bhauroa Patil College of Engineering, Satara, have successfully completed their final year project in our industry.

Their project involved finding of Economic Batch Quantity (EBQ) and Economic Order Quantity (EOQ) for work-in house and bought-out items. This will help us to control transit and bought-out inventory and its management.

The project started on 8 August 2016 and was successfully completed on 13 March 2017. We wish them great success in future.

For Abhijat Equipments Pvt. Ltd.

Production Manager

(Mr. Sachin Kumbhar)

H.R. Manager

(Mr. Shrikant Shinde)

2016 17

MINAL AGED BIGHTELL

A-10/3 OLD MIDC, SATARA- 415 004 © 9881444744

Date: / /

SPONSORSHIP LETTER

10/08/2016

TO

The Principal

K.B.P. College of Engg,

Satara.

Through - Head of Dept (Prod. Engg)

Ref- Your letter dated on : 1 / 8/2016

Respected Sir,

With reference to above mentioned letter we have allotted the project of "REVERSIBLE HYDRAULLIC PLOUGH" to the student. Further we would like to mention that said project work is sponsored by us during the academic year 2016-17 with necessary technical guidance.

We assume you fully support to the student to complete their project in time

Student Names:-

- Biradar Dnyaneshwar Narsing
- Shaikh Soheb Sikandar
- Awaghade Lakhan Balu
- 4) Pawar Arjun Shanka

Shivam Eng. Works

Proprietor

Yours Faithfully,

Ravindra A Bagekovi

Shivam agro engineering.



WORKS: - G-39,OLD MIDC, NEAR GANESH CHOWK, SATARA-415003

Mobile:- 9823456444,9764200009 Email:-shalish.j@rediffmail.com

Date: 20/01/2017

To,
The Principal,
K.B.P. College of Engineering,
Satara.

Project Guide: - Prof. Shaikh A.M. Subject: - Sponsorship of project

Respected sir,

A project group of following three student from final year, production engineering department is accepted to us for completion of the project Pneumatic Scissor Lifter.

Miss. Priyanka Sanjay Kanase Mr. Ravi Dattatray Jambhale Mr. Aniket Sanjay Madke

During project period the student has to follow following rules and regulations & safety instructions.

- Student should wear apron on over normal dress.
- Student should wear shoes.
- The student have to practically get involve in work assigned to them rather than only observing.
- 4. Travelling to attend duties is totally their parent's responsibility.

The entire cost incurred for this project will be borne by the company including purchasing, machining & fabrication involved. We agree to make available this project to the college for the purpose of orals of the students as & when require by the college.

We shall cooperate in the best possible manner & means available at our disposal.

Your's faithfully,

Just 1

Mrs. Pratibha S. Jagtap Siddhi Industries, Satara.



Shalgar Bolts Industry D-13, M.I.D.C,

Satara

Certificate

Date-24/3/2017

TO WHOMSOEVER IT MAY CONCERN

This is certify that Mr. Kunal S. Shalgar and his team, the students of Production Eineering Department, Karmaveer Bhaurao Patil College of Engineering, Satara, have Eccessfully completed their final year project in our industry

Their project involved finding solution for Bolts cleaning and manufacturing the machine for bolts cleaning. This will help us to reduce the corrosion of bolts due to acid cleaning and reducing the overall manufacturing cost of bolts.

The project started on 2 September 2016 and was successfully completed on 21 March 1017. We wish him and team great success in future.

For Shalgar Bolts Industry

TO THEY HAD

Owner

Mr Sachin Shalgar)



KARAD PROJECTS AND MOTORS LIMITED

(Wholly Owned Subsidiary of Kirloster Brothers Limited)

To.

Karmaveer Bhaurao Patil Colleage Of Engineering, Sadar Bazar, Near RTO Office,

Satara-415001,

14th April 2017

Subject:- Sponsorship for B. E. Project Work.

Dear Sir,

This has reference with your letter dtd. 12.10.2016, We hereby inform you that we granted permission for project work on "Development in Cleating Machine" to your following students-

- 1. Mr. Kanase Rahul Vishwas
- 2. Mr. Jagadale Shubham Madhukar
- 3. Mr. Pisal Shripad Mahadev

We further to inform you that please ask these students to follow the organizational discipline and product secrecy during their project assignment.

Thanking you,

QL Karad Projects And Motors Limited

Mahesh Patil Manager-HRM&C

Project Division: Udyog Bhavan, Tilek Road, Pune 411 002 (India) Phone: +91 20 2444 0770 Fax: +91 20 2444 0156 Motor Division: Plot 8-57 & 68, MIDC Karad Industrial Area, Tasawade, Karad 415 109 (India) Phone: +91 2164 258424 Fix: +91 2164 258425 Stamping Division: Plot D-2 & D-2/1, MIDC Karad industrial Area, Tasawade, Karad 415 109 (India) Phone: +91 2164 258515 Fax: +91 2164 258522 Component Division: 775/B, Plot No. 11, Karad Dhebewadi Road, Wing 415 122 (India) Phone: +91 2164 267061 Fax: +91 2164 267522

Registered Office: Plot B-57 & 68, MIDC Karad industrial Area, Tasawade, Karad 415 109, Tal. Karad, Dist. Salara, Maharashtra (India) Email enquiry@xpmi.co.in. Website: www.kpmi.co.in CIN_U457(3PN2001PLC149623

10.17

SHALGAR EQUIPMENTS PVT. LTD.

Factory: Plot No: G 14, Old M.I.D.C. Satara-415004 Tel: 247272
Office: FF/3, Gayatri Apartment, opp. Circuit House, Satara – 415002 Tel / Fax: 236131

Manufacturer of: Steel cupboard, Manual & motorized Mobile storage units, Fixed Units.

Date: - 25/03/2017

To.

The Principal,

K.B.P. College of Engineering, Satara.

The students listed below are working on a project in our Industry. The work of this project began in month of September. Their project is to design and manufacture on Flat and Bar Bender for industrial purpose in a price lower than that of market.

The Project is near Completion and the industry is satisfied with the results. College should motivate student to carry-out such projects in future as they help in the development of the students.

Name of Students:-

- 1. Mr. Omkar D. Shalgar
- 2. Mr. Sandesh S. Phalke
- 3. Mr. Yogesh G. Pawar
- 4. Mr. Pradeep G. Zanzane

Mr. Dhananjay Shalgar

(SHALGAR Equipments Pvt. Ltd.)



SPARK AUTOMETAL COMP. PVT. LTD.

L-74, Addl. MIDC, SATARA-415004 Ph.: 02162-240349 e-mail: rajeshkorpe@gmail.com CIN U 34300 PN 2006 PTC 022030

Date: -20 March 2017

To, The Principal,

K.B.P. College of Engineering, Satara.

The students listed below were working on a project in our Industry. The work of this ject began on 15 June. Their project was to design and manufacture an E-Rickshaw for instrial purpose in a price lower than that of market thus providing a low cost alternative for current need.

The Project came to conclusion and the industry is satisfied with the result. College should motivate students to carry out such projects in future as they help in the development of students.

The fabrication, trail and launch Phases of the project began on 1st December 2016 and ended on 19th February 2017. The flag off of their Project was scheduled on 19 February 2017.

The students worked on their project all day due to which as expected their project concluded quite early. The college authorities are requested to consider this point and help the students complete their further work.

Name of Students:-

0 - NT	Name	Roll No.
Sr.No.		30
1	Mr. Akash Sandesh Mohite	15
2	Mr. Anurag Abhay Devare	- 10
7	Mr. Rushabh Sanjay Bakare	10
	Mr. Pratik Vijay Nimbalkar	34
-4	Mr. Prank Vijay Nimoaikai	32
5	Mr. Dhiraj Dilip Nawadkar	49
6.	Mr. Seva Bhaskar Shelar	42

Spark Autometal Comp. Pvt .Ltd

Director



Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering, Satara

Satara- 415001, Maharashtra, India



Construction of Plastic Road in Ambavde, Khatav

In Collaboration with

Mayur Industry, M.I.D.C., Satara

Research Pilot Project

Project Coordinator: Prof. Anand Tapase Civil Engineering Department 2016

Sr. No	Content Page
1	News Paper Cutouts
2	First page of final year students research project
3	Invitation Letter
4	Sponsorship Letter from Mayur Industries
5	Letter from Principal to Mayur Industries, M.I.D.C., Satara
6	Letter to Executive Engineer, ZP, Satara
7	Guidelines for use of Waste Plastic IRC: 98-2013 front page
8	Guidelines for use of Waste Plastic IRC: SP:53-2010 front page
9	Estimate of Approach Road to Smashan Bhumi at Ambavde Taluka Khatav
10	Requirement from Grampanchayat Ambavde
11	Faculty Coordinators report

Original





RAYAT SHIKSHAN SANSTHAS

KARMAVEER BHAURAO PATIL COLLEGE OF ENGINEERING

SATARA.



A PROJECT REPORT ON

UTILIZATION OF WASTE PLASTIC BY WET AND DRY PROCESS- AMBAVDE (KHATAV) A CASE STUDY

SUBMITTED BY

JADHAV AJAY D.

SHINDE RAJAT R.

JADHAV UTKARSHA S.

SADAWARTE SAYALI S.

SHINDE NIKHIL G.

CHAVAN HIMANSHU S.

UNDER THE GUIDANCE OF

PROF, ANAND B. TAPASE

DEPARTMENT OF CIVIL ENGINEERING

(2015-2016)

INSTITUTE K.B.P. COLLEGE OF ENGINEERING, SATARA

Page



M/s. MAYUR INDUSTRIES

Reprocessor & Reseller of H.M., P.P., H.D., L.D.P.E., Plastic Granules

Work & Office - J-2/20, Addl. M.I.D.C.

Satara - 415004, Ph. - (02162) 248226 Pt. No. 9421119226.

Ref. M/s./MI/226/2016-17

Date 6/01/16

To
The Principal
Rayat Shikshan Santha's,
Karmaveer Bhaurao Patil College of Engineering, Satara

Subject: Sponsorship to the Pilot Project of Plastic Road

Reference: Your Letter KBPCOES/Civil/ 2236C, dated: 31/12/2015

Respected Sir,

We are happy to offer a sponsorship in terms of Shredded and recycled plastic material in the appropriate size as mentioned in IRC: SP-98-2013 costing Rs. 12,000/- for the Research Pilot Project,

Title of the Project: Construction of Plastic Road in Ambavde, Khatav in association with ZP, Satara

We are providing 100% of the material in the appropriate norms as per the quantity and size discussed with the Project-Incharge Prof. Anand Tapase from your institute.

We are happy to be associated with you as a part of this Pilot Project which is beneficial to the society.

This is for your information and further procedures.

Thanking you.

Bulanjase

Shri. B.N. Wanjare Mayur Industries M.I.D.C., Satara "Education through self-help is our motto" - Karmaveer Rayat Shikshan Sanstha's



Karmaveer Bhaurao Patil College of Engineering, Satara.

Sadar Bazar, Near RTO Office, Satara, Maharashtra State (INDIA) Pin - 415 001.

Founder: Padmabhushan Dr. Karmaveer Bhaurao Patil (D.Litt.)

[Approved by AICTE, New Delhi, DTE, Maharashtra State - Affiliated to Shivaji University, Kolhapur]

website.www.kbpcoes.edu.in Tele Fax - 02162-235767

Dr. Vikram Patil

Principal

E-Mail: office@kbpcoes.edu.in

Phone: +91 2162 230636 / 235767 / 233005

Ref. No.: KBPCOES/CIVIL/ 2236C

DATE: 31/12/2015

प्रती, श्री. <u>बी. एन</u> वंजाही <u>अथूर इंडस्ट्री</u>ज

एम.आय.डी.सी. सातारा.

विषय:- जिल्ह्यात एक पतदर्शी (Pilot Project) प्रकल्प म्हणून अंबवडे ता - खटाव येथे अंतर्गत पोहोच रस्ता डांबरीकरण करणेकामी लागणारे टाकाऊ प्लास्टिक आपल्याकडून प्रायोजक तत्वावर्ती मिळणेबाबत.

संदर्भ:- मा. सरपंच ग्रामपंचायत अंबवडे ता - खटाव यांचे पत्र, कर्मवीर भाऊराव पाटील अभियांत्रिकी महाविद्यालय आवक क्र. १४०२, दिनांक: १२/१०/२०१५

महोदय.

विषयांकित ग्रामपंचायतीस जिल्हा वार्षिक योजनेमधून जनसुविधा योजनेअंतर्गत रस्ता डांबरीकरणासाठी रूपये सात लक्ष मंजूर झाले आहेत. सदर ग्रामपंचायती अंतर्गत पोहोच रस्ता डांबरीकरण करणेकामी, टाकाऊ प्लास्टिकचा वापर डांबरीकरण करण्यासाठीचे तंत्रज्ञान आमच्या संस्थेकडून मागितले आहे.

टाकाऊ प्लास्टिकचा वापर रस्ता डांबरीकरणासाठी देश पातळीवर बऱ्याच ठिकाणी केला गेला आहे, त्याच प्रमाणे टाकाऊ प्लास्टिकचा वापर कसा व किती प्रमाणात करावा हयासाठी इंडिअन रोड कॉग्रेस (Indian Road Congress, IRC) ने मार्गदर्शन सूचना (Guidelines) देखील प्रसिद्ध केल्या आहेत.

रयत शिक्षण संस्थेच्या आमच्या कर्मवीर भाऊराव पाटील अभियांत्रिकी महाविद्यालयामधील स्थापत्य विभागामधील विध्यार्थी ह्याच टाकाऊ प्लास्टिक पासून टिकाऊ रस्ते विषयावर प्राध्यापक आनंद तपासे व विभागप्रमुख प्राध्यापक जगन्नाथ ह्यांच्या मार्गदर्शनाखाली संशोधन व साताऱ्यात कचऱ्यातून मिळणारे टाकाऊ प्लास्टिकच्या प्रमाणाबदल माहिती गोळा करत आहेत.

आम्ही या ठिकाणी नमपुर्वक सादर करू इच्छितों की टाकाऊ प्लास्टिकचा वाढत चाललेला विळखा व पर्यावरणाचा होत असलेला ऱ्यास रोखण्यासाठी, टाकाऊ प्लास्टिकचा रस्ता डांबरीकरणासाठी योग्य प्रमाणात उपयोग केल्यास, रस्ता अधिक टिकाऊ होईल, निधीमध्ये बचत होईल. तरी आम्ही सदर कामासाठी निशुल्क तंत्रज्ञान तथा मार्गदर्शन पुरवत आहोत. तसेच आमच्या





करण्याकरिता अंबवडे ता - खटाव ग्रामपंचायतीमध्ये संदर्भांकित पत्रास अनुसरुन, जिल्ह्यात एक पतदर्शी (Pilot Project) प्रकल्प म्हणून बांधकाम विभाग जिल्हा परिषद सातारा यांचे समवेत काम करणेची संधी आम्हास मिळाली आहे.

तरी कृपया वरील सर्व बार्बीचा विचार करून, सदरचा नाविन्यपूर्ण व पर्यावरण पूरक असा उपयुक्त प्रकल्पासाठी, तसेच जिल्ह्यात एक पतदर्शी (Pilot Project) प्रकल्प म्हणून आमच्या महाविद्यालयातील स्थापत्य विभागामधील विध्यार्थ्यांना टाकाऊ प्लास्टिक पासून टिकाऊ रस्ते विषयावरील, रस्ता डांबरीकरणासाठी लागणारे टाकाऊ प्लास्टिक आपल्या इंडस्ट्रीजकडून प्रायोजक तत्वावर्ती स्वच्छ व योग्य आकारात बारीक करून मिळावे ही विनंती.

आपला विश्वासू,

प्राचार्य

कर्मवीर भाऊराव पाटील अभियांत्रिकी महाविद्यालय सदरबङ्गार सातारा-४१५००१

प्रत माहितीस्तव सविनय सादर

- 1) मा. मुख्य कार्यकारी,जिल्हा परिषद सातारा.
- 2) मा. जिल्हा नियोजन अधिकारी, जिल्हा नियोजन समिती, जिल्हाधिकारी कार्यालय, सातारा.
- 3) मा. उपअभियंता, जिल्हा परिषद बांधकाम उपविभाग सातारा/खटाव.



Karmaveer Bhaurao Patil College of Engineering, Satara.

Sadar Bazar, Near RTO Office, Satara, Maharashtra State (INDIA) Pin - 415 001. Founder: Padmabhushan Dr. Karmaveer Bhaurao Patil (D.Litt.)

[Approved by AICTE, New Delhi, DTE, Maharashtra State - Affiliated to Shivaji University, Kolhapur]

website.www.kbpcoes.edu.in Tele Fax - 02162-235767

Dr. Vikram Patil

Principal

E-Mail: office@kbpcoes.edu.in

Phone: +91 2162 230636 / 235767 / 233005

Ref. No. : ICBPCOE) / CIVIL / 2236 B

DATE: 31 /12 /2015

प्रती.

मा. कार्यकारी अभियंता बांधकाम

दक्षिण विभाग जिल्हा परिषद सातारा.

विषय:- जिल्ह्यात एक पतदर्शी (Pilot Project) प्रकल्प म्हणून अंबवडे ता - खटाव येथे अंतर्गत पोहोच रस्ता डांबरीकरण करणेकामी टाकाऊ प्लास्टिकचा वापर करणे व बांधकाम विभाग जिल्हा परिषद सातारा यांचे समवेत काम करणेची संधी मिळणेबाबत.

संदर्भ:- मा. सरपंच ग्रामपंचायत अंबवडे ता - खटाव यांचे पत्र, कर्मवीर भाऊराव पाटील अभियांत्रिकी महाविद्यालय आवक क्र. १४०२, दिनांक: १२/१०/२०१५ महोदय.

विषयांकित ग्रामपंचायतीस जिल्हा वार्षिक योजनेमधून जनस्विधा योजनेअंतर्गत रस्ता डांबरीकरणासाठी रुपये सात लक्ष मंजूर झाले आहेत. सदर ग्रामपंचायती अंतर्गत पोहोच रस्ता डांबरीकरण करणेकामी, टाकाऊ प्लास्टिकचा वापर डांबरीकरण करण्यासाठीचे तंत्रज्ञान आमच्या संस्थेकडून मागितले आहे.

टाकाऊ प्लास्टिकचा वापर रस्ता डांबरीकरणासाठी देश पातळीवर बऱ्याच ठिकाणी केला गेला आहे, त्याच प्रमाणे टाकाऊ प्लास्टिकचा वापर कसा व किती प्रमाणात करावा ह्यासाठी इंडिअन रोड कॉग्रेस (Indian Road Congress, IRC) ने मार्गदर्शन सूचना (Guidelines) देखील प्रसिद्ध केल्या आहेत.

रयत शिक्षण संस्थेच्या आमच्या कर्मवीर भाऊराव पाटील अभियांत्रिकी महाविद्यालयामधील स्थापत्य विभागामधील विध्यार्थी ह्याच टाकाङ प्लास्टिक पासून टिकाङ रस्ते विषयावर प्राध्यापक आनंद तपासे व विभागप्रमुख प्राध्यापक जगन्नाथ ह्यांच्या मार्गदर्शनाखाली संशोधन व साताऱ्यात कचऱ्यातून मिळणारे टाकाऊ प्लास्टिकच्या प्रमाणाबदल माहिती गोळा करत आहेत.

आम्ही या ठिकाणी नमपुर्वक सादर करू इच्छितो की टाकाऊ प्लास्टिकचा वाढत चाललेला विळखा व पर्यावरणाचा होत असलेला ऱ्यास रोखण्यासाठी, टाकाऊ प्लास्टिकचा रस्ता डांबरीकरणासाठी योग्य प्रमाणात उपयोग केल्यास, रस्ता अधिक टिकाऊ होईल, निधीमध्ये बचत



होईल. तरी आम्ही सदर कामासाठी निशुल्क तंत्रज्ञान तथा मार्गदर्शन पुरव् इच्छितो. तसेच आमच्या महाविद्यालयामधील स्थापत्य विभागामधील विध्यार्थी व संबंधित प्राध्यापक यांना संशोधन करण्याकरिता अंबवडे ता - खटाव ग्रामपंचायतीमध्ये संदर्भांकित पत्रास अनुसरुन, जिल्ह्यात एक पतदर्शी (Pilot Project) प्रकल्प म्हणून बांधकाम विभाग जिल्हा परिषद सातारा यांचे समवेत काम करणेची संधी द्यावी.

याठिकाणी आणखी एक बाब नमूद करण्यात येते की सदर कामाप्रमाणेच जिल्हा वार्षिक योजनेमधून विविध विभागांना मंजूर होणाऱ्या निधी मधून जिल्ह्यात उत्तम प्रतीचे कामे होऊ शकतील असा आम्हास विश्वास आहे.

तरी कृपया वरील सर्व बार्बीचा विचार करून, सदरचा नाविन्यपूर्ण व पर्यावरण पूरक असा उपयुक्त प्रकल्पांसाठी, जिल्ह्यात एक पतदर्शी (Pilot Project) प्रकल्प म्हणून आमच्या महाविद्यालयास याची परवानगी द्यावी ही विनंती.

आपला विश्वासू,

प्राचार्य कर्मवीर भाऊराव पाटील अभियांत्रिकी महाविद्यालय

सदरबझार सातारा-४१५००१

प्रत माहितीस्तव सविनय सादर

- 1) मा. मुख्य कार्यकारी,जिल्हा परिषद सातारा.
- 2) मा. जिल्हा नियोजन अधिकारी, जिल्हा नियोजन समिती, जिल्हाधिकारी कार्यालय, सातारा.
- 3) मा. उपअभियंता, जिल्हा परिषद बांधकाम उपविभाग सातारा/खटाव.



CERTIFICATE

This is to certify that the project entitled "Design and Implementation of user configurable industrial Human Machine Interface (HMI)" submitted by Mr. Sachin Ashok Boke in partial fulfillment of the requirements for the award of the degree of Master of Engineering in Electronics Engineering (2014-2016) to the Karmaveer Bhaurao Patil College of Engineering, Satara affiliated to Shivaji University, Kolhapur India is a bonafide record of the work carried out by him at Renu Electronics Pvt.Ltd., Baner, Pune from July2015 to July-2016 under our supervision and guidance.

Mr.Alankar Dhobale

Manager (Embedded Development)

Renu Electronics Pvt.Ltd.

An ISO 9001: 2008 and ISO 14001: 2004 cartified company

Survey No. 216, Baner Road, Pune - 411045, India. Tel: + 91 20 2729 2840 Fax: + 91 20 2729 2839

Email: info@renuelectronics.com

Website: www.renuelectronics.com

EUT- 16



Date: 01/07/2015

To.

The Principal,

K.B.P College of Engineering,

Satara.

Subject: - Sponsorship for M.E (Electronics Engg) Project.

Dear Sir,

The following M.E. (Electronics Engg.) student of your institute have been approved to undergo project work at Renu Electronics Pvt. Ltd., Baner Pune-45 for the academic year 2015-2016. The project will be under guidance of Mr. Alankar Dhobale from this establishment.

The organization will support the student in technical guidance as well as financial support to complete project work.

Project Name: - "Design and implementation of user configurable industrial Human Machine Interface (HMI)".

Name of Student: - Sachin A. Boke

Thanks & Regards

Mr. Alankar Dhobale

Manager (Embedded Development)

Renu Electronics Pvt. Ltd.

An ISO 9001: 2008 and ISO 14001: 2004 certified company

Survey No. 2/6, Baner Road, Pune - 411045, India. Tel : + 91 20 2729 2840 Fax : + 91 20 2729 2839

Email: info@renuelectronics.com

Website: www.renuelectronics.com

146



"Education through self-nelp is our motto" - Karmaveer Rayat Shikshan Sanstha's

Karmaveer Bhaurao Patil College of Engineering & Polytechnic, Satara.

Manarashtra State (INDIA) Pin - 415 001.

Founder: Padmabhushan Dr. Karmaveer Bhaurao Patil (D.Litt.)

Approved by AICTE, New Delhi, DTE. Maharashtra State - Affiliated to Shivaji University, Kolhapur]

vebsite.www.kbpcoes.edu.in Tele Fax - 02162-235767

Dr. Vikram Patil

Principal

E-mail: office@kbpcoes.edu.in

Phone: +91 2162 230636 / 235767 / 233005

Ref. No. A HO

DATE : 7 / 2 /201_

Date: 10/08/2015

To.

The Director,

HR Department,
Emerson Climate Technologies India Pvt Ltd,
Atit. (Dist. Satara)

Subject: Proposal for project work of M.E. Electronics student at our College.

Dear Sir,

We are very much thank full and obliged for the cooperation extended during our visit on 25 July 2015 at your Emerson Climate Technologies India Pvt Ltd, Atit.

During our discussion you have extended your support to working of our students for their project in your company.

We propose herewith, to make available, the opportunity to Mr. Abhijit S. Deo to work in your company on live project in your company.

I further request you to extend your cooperation for working on live project in your company and sponsor the project. I further assure that he will be available in company working on project for maximum period of time and follow the regulations of the company.

It is further requested to permit and allow the guide and examiners to visit time to time and examine the project completed in your company.

Thanking you and expecting your positive reply.

Prof. R. J. Devi Project Guide Prof. V. S. Shingate Head of Electronics EnggDeptt. Dr. V. S. Patil Principal



(India) Private Limited Atit-Pali Road, Atit 415 519. (Maharashtra) T +91 (2162) 662200 F +91 (2162) 262069

Emerson Climate Technologie

Registered Head Office :

Plot No. 23, Rajiv Gandhi Infotech Par Phase - II, Hinjewadi, Pune - 411 057 Phone No. : 020 - 4200 2000 Fax No. : 020 - 4200 2099 CIN - U29192PN1993PTC071223

HRD/FY15 29th August, 2015

To,
Principal,
Karmaveer Bhaurao Patil College of Engineering & Polytechnic,
Satara - 415001

Ref: By H.D. dated 27/08/2015

Sub: Permission For M. E. (Electronics) Student For Dissertation Work

Dear Sir.

We are pleased to inform you that Mr. Abhijit S. Deo, student of your institute has been allowed to do Project / Dissertation work at Atit Factory.

The Project period is from 29th August 2015 to 30th April 2016.

Kindly advice the student to strictly observe discipline, rules and regulations of the company, and give full co-operation to the company guide, Mr. Jagdish R. Phalle, Manager, Plant Engineering.

It is expected that student will keep confidentiality of the information gathered during this Project. Student is advised to submit the draft of project report to the company guide on completion of the project. Student may take final prints of the report for submission on approval of company guide.

A copy of this final report with approval (signature and remark on first page) from the company guide should be submitted to the undersigned at HR. On receiving the project report as said above, HR would issue project completion certificate to the student.

We are sure the project work would be useful to student in providing an exposure to practical knowledge of technological development in the Industry.

Thanking you,

Yours Sincerely,

for Emerson Climate Technologies (India) Private Limited.

Sandeen Kulkarni

Section Manager, Learning & Development

Human Resources



Date 29th August, 2015

Abhijit S. Deo Gr. 4, Saivihar, Phase - II, Near Sanjivan Hospital, Sadar Bazar Satara - 415001

Dear Abhijit,

With reference to the project training permission letter dated 29th August, 2015 given to you by Emerson Climate Technologies (India) Pvt. Ltd., (henceforth referred as company), please read the clause below as a part of the agreement between you & Company.

" During the tenure of this dissertation work and after the termination of this dissertation work, all parties shall keep secret and confidential and shall not disclose to any other parties unless the prior written approval of Emerson has been obtained, the terms of this Agreement and any and all information, data, specifications, reports or other documents or things supplied or made available pursuant to this dissertation work but excluding any information which is in the public domain or which a party is under any legal duty to disclose".

For Emerson Climate Technologies (India) Private Limited

Signature

Name: Sandeep S. Kulkarni

Signature of Students

Emerson Climate Technologies

(India) Private Limited Atit-Pali Road,

Atit 415 519. (Maharashtra) T+91 (2162) 662200 F+91 (2162) 262069 Registered Head Office : Plot No. 23, Rajiv Gandhi Infotec Phase - II, Hinjewadi, Pune - 411 Phone No.: 020 - 4200 2000 : 020 - 4200 2099 CIN - UZ9192PN1993PTC07122

Abhijit S. Deo



PH : (02162) 244201, 248543 Tele Fax - (02162) 248543 E-mail - nisaka_taps@rediffmail.com www.nisakaengineering.com

To.

Principal.

Karmyeer Bhaurao Patil

College Of Engineering, Satura.

Sub - Spansorship for the UG project work

Ref.; Voor letter dated 25-7-2015

Dear Sir.

Nisaka Engineering Pvt Ltd, agrees for sponsorship for UG project work, of the following named students

- 1. Mr. Dayanaud Ashok Birambole.
- 2. Mr. Vijaykumar Dagadu Mane.
- 3. Mr.Rohan Prakash Sakale.
- 4. Mr. Nikesh Janaron Tayade.

This sponsorship for the project " QUICK REVERSING TAPPING ATTACHMENT". This sponsorship will cover the project cost. This is for your information and confirmation.

We request you to let us know time table for execution for this project work.

Thanking You,

For Nisaka Engineering Pvt Ltd

Mr Amar Nikam

Manufacturers of : H. S. S. Ground Thread Taps, H. S. S. Round Thread Dies and Hex Die Nuts



NISAKA ENGINEERING PVT. LTD.

Office & Factory: H 23, M I D.C., SATARA-415004. PH.: (02152) 244201, 248543 Tele Fax - (02162) 248543 E-mail - nisaka_taps@rediffmail.com www.risakaengineering.com

Certificate of completion

We hear by declare that following student of Karmaveer Bhaurao Patil College of Engineering have successfully completed a project at our company.

The project which was entitled as "Quick Reversing Tapping Attachment" mainly emphasized on the capping the drilled hole under particular speed of operation.

The names of the students are as follows:-

- 1) Mr. Dayanand Ashok Birambole.
- 2) Mr. Vijaykumar Dagadu Mane.
- 3) Mr. Rohan Prokash Sakale.
- 4) Mr. Nikesh Janrao Tayade.

We wish them all the best for their future endeavors.

Mr. Amar Nikam.

Nisaka Engineering Pvt. Ltd.

Manufacturers of : II. S. S. Ground Thread Taps, H. S. S. Round Thread Dies and Hex Die Nuts

COST OF MANUFACTURED PARTS

SR. NO	NAME OF THE COMPONENT	QUANTITY	COST
1	Cover		710/-
2	Shank	1	225/-
3	Drive Shell	1	410/-
4	Body	1	1470/-
5	Studs	3	90/-
6	Clutch pin	1	30/-
7	Reverse Shell	1	240/-
8	Clutch Assembly	1	410/-
9	Tic Rod	1	60/-

COST OF BROUGHT OUT PARTS

SR. NO	NAME OF THE COMPONENT	QUANTITY	COST
1	Gear Assembly		3750/-
:. .	Ring Gear	1	
- 1	Sun Gear	1	
1	Pinion Gear	3	
2	True Grip Spindle	1	590/-
3	True Grip Nut	11	130/-
	Cir Clips	3	30/-
4	Shank Bushing	1	60/-
5		6	72/-
6	Cover Screw	3	- 25/-
7	Reverse gear screw		80/-
8	Reverse gear Bushing		75/-
9	Clutch Spring	1	12/-
10	Clutch Screw	Z	

OVERALL COST

	COST
SR. NAME	
	TURED PARTS 4500/-
O COST OF MANUFACT	
2 COST OF BROUGHT	OUT PARTS 4850/-
2 COST OF BROCKIT	1500/-
OTHER CO	ST
3	10350/-
TOTAL CO	ST

Karmaveer Bhaurao Patil College Of Engineering, Satara

52

Speciality Urethanes

REF: PERSONNEL/2015-2016/

DATE: 03-08-2015

To,

Principal,

Karmaveer Bhaurao Patil College,

Of Engineering, Satara.

Sub: Sponsorship for the UG project work.

Ref: Your letter dated 30-07-2015.

Dear Sir,

Speciality Urethanes Pvt. Ltd., agrees for sponsorship for the UG project work, of the following named students.

- 1. Mr. Jaydeep N. Mane
- 2. Mr. Vikrant S. Shinde
- 3. Ms. Kiran B. More
- 4. Mr. Devendra B. Bhatia

This sponsorship for the project "CASTER WHEEL ENDURANCE TESTING RIG". This sponsorship will cover the project cost. This is for your information and confirmation.

We request you to let us know time table for execution for this project work.

Thanking You,

For Speciality Urethanes Pvt. Ltd.

Govind Lele

Managing Director

Regd. Office : 324, Shaniwar Peth, Pune - 411 030. Moharashtra, INDIA. Telefax:+91-20 - 24480152 CIN: U85120PN1987PTC043554 Head Office:

N -19, Additional MIDC, Satara - 415 004. Maharoshtra, INDIA

Phone: +91-2162 - 240721, 240722, 240723.

Fax: +91-2162 - 240 724. E-mail: info@suprathone.com

Web: www.suprathane.com



Certificate of Completion

We hear by declare that following students of 'Karmaveer bhaurao Patil' Engineering College have successfully completed a project at our company.

The project which was entitled as "Wheel Endurance Testing Rig" mainly emphasized on polyurethane wheel testing for load capacity conditions under particular speed of operation.

The names of the students are as follows -

- · Mr. Vikrant SanJay Shinde
- Ms. Kiran Bapurao More
- Mr. Jaydeep Nandkumar Mane
- Mr. Devendra Brijkishore Bhatia

We wish them all the best for their future endeavors.

Anuj Lele

Executive Director Speciality Urethanes Pvt.Ltd.

> Regd. Office: 324, Shaniwar Peth, Pune - 411 030. Maharashtra, INDIA. Telefax: +91-20 - 24480152 CIN: U85120PN1987PTC043554

Head Office:
N - 19, Additional MIDC, Solaro - 415 004.
Maharashtra, INDIA
Phone: + 91-2162 - 240721, 240722, 240723.
Fax: + 91-2162 - 240 724. E-mail: info@suprathane.com
Wash 1 wowstoprathane.com

9. COST ANALYSIS:

Cost analysis of bought products -

Table No.(3)

Sr. No.	Bought Products	Cost
1	Round bar (35mm)+ Bracket	8,055/-
2	Nut-bolt, Washers	4,392/-
3	Linear bearing	4,950/-
4	Hydraulic system	48,375/-
5	Couplings	5,224/-
6	Gear box	14,672.23/-
7	Motor	10,475.25/-
8	Panel box + Accessories	40,781/-
9	Support casters(Qty 4)	64,500/-
10	Red-oxide can	1600/-
11	Cylindrical Roller Bearing	7,132/-
Total		2,14,281.48/-

Cost analysis of manufactured products -

Table No.(4)

Sr. No.	Manufactured Products	Cost
1	Frame material & fabrication	43,875/-
2	MS Plates	32,503/-
3	Rotating Plate	20,000/-
4	Rotating Hub	2,188/-
5	Hanger bar OD28	2,268/-
6	Bearing housing	920/-
7	Shaft EN8	936/-
8	Stress Relieving	64/-
9	Shot Blasting	1000/-
10	Red oxide painting	1000/-
Total		1,04,754/-

Total Cost = 2,14,281.48 + 1,04,754 = 3,19,035.48/-

YOGESH CHEMICAL PRODUCTS

Job Working Chemical

- O Boiler cleaner solution
- Boiler Anticoated solution
- O Compreser cleaner solution O Algecide coated solution
- O Liquid sent soap

O Sanitary solution

Permenent Reg. No. ENTP270312100244

H. 4, P.B. Road KHODAD, Post :- Nisrale, Ph.: (02162) 262337, Mob : 9226984386

Ref - 46 P/2015-16/211

02/4/2016.

Completion letter

This is to certify that the students from K.B.P. College of Engineering, Satara completed their Final Year project in our company "YOGESH CHEMICAL PRODUCTS PVT.LTD". The project name is "DESIGN AND DEVELOPMENT OF NON-IBR VERTICAL FIRE TUBE BOILER". The project manufacturing duration from 22/08/2015 to 23/01/2016. They successfully completed their project within the shortest time period. This project is completed under the valuable guidance of Prof. D. A. Ghatge & Mr. J. Y. Shinghade.

We wish best of luck on completion of his project with us.

The student's name

- Saurabh Sanjay Kodak
- Arjun Mohan Kshirsagar
- Sagar Mahadev Phadatare
- Aniket Vitthal Sawant-Kedar

With best regards,

Silfa Migesh Chestical Products

Mr. J.Y. Shinghade

(YOGESH CHEMICAL PRODUCTS PVT.LTD.)

OGESH CHEMICAL PRODUCTS

Job Working Chemical

- O Boiler cleaner solution
- O Boiler Anticoated solution
- O Compreser cleaner solution
- O Algecide coated solution

Liquid sent soap

O Sanitary solution

Permenent Reg. No. ENTP270312100244

N.H. 4, R.B. Road KHODAD, Post - Nisrale, Ph.: (02162) 262337, Mob.: 9226984386

Ref - WCP/2015-16/103

Date- 20/8/2015

To.

Principle.

K.B.P. College Of Engineering,

Satara.

Subject: Appreciation letter for project work.

Sir.

This is to certify that the appreciate working of students from K.B.P. College of Engineering; Satara completed their Final Year project in our company "YOGESH CHEMICAL PRODUCTS PVT.LTD". The project name is "DESIGN AND DEVELOPMENT OF NON-IBR VERTICAL FIRE TUBE BOILER". The project manufacturing duration from 22/08/2015 to 23/01/2016. They successfully completed their project vithin the shortest time period. The students work very hard and they saved RS 14700 as compared to market ate. Also increases the life and efficiency of boiler. These achievements are really appreciable. This project is completed under the valuable guidance of Prof. D.A.Ghatge & Mr. J.Y. Shinghade.

We wish best of luck on completion of their project with us.

The student's name

- Saurabh Sanjay Kodak
- Arjun Mohan Kshirsagar
- Sagar Mahadev Phadatare
- 4. Aniket Vitthal Sawant-Kedar

With best regards,

Mr. J.Y. Shinghade Proprietor

YOGESH CHEMICAL PRODUCTS PVT.LTD

10.4 COST OF PURCHASED PARTS:

Table No. 10.1 Cost of purchased parts

Sr. No.	Description	Qty	Material	AMOUNT(RS
١.	Feed Pump	1	C.I.	7500
2.	Feed Pump Motor	1	C.I	6200
3.	Safety Valve	1	M.S.	750
4.	Pressure Gauge (0-14 Kg/cm2)	1	M.S.	550
5.	Temperature Gauge	1	M.S.	450
6.	Non Return Valve	1	M.S.	1800
7.	Steam Trap	1	M.S.	1200
8.	Steam Valve (1/2 Inch)	1	M.S.	1500
9.	Steam Valve (1 Inch)	1	M.S.	2300
10.	Water NRV	1	M.S.	450
11.	Float Valve	1	M.S.	15500
12.	Gauge Glass Assembly	1	Glass	2400
13.	Blower	1	C.I.	6200
14.	Simless Tube	21	Nickel Alloy	13000
	TOTAL	59800		

10.5 COST OF MANUFACTURING PARTS:

Table No. 10.2 Cost Of Manufacturing Parts

Sr. No.	Description	Qty	Material	AMOUNT(RS)
1.	Furnace	1	M.S.	11000
2.	Drum	2	M.S	15000
3.	Casting Plate	1	M.S	5500
4.	Chimney	1	M.S	3500
	TOTAL		-	35000

- Total cost= cost of purchased material + approximate labor cost
 - + travelling allowance + miscellaneous cost
- 1) Cost of purchased parts = RS. 59,800/-
- 2) Approximate labor cost:

Labor Charge: 18000

3) Travelling allowance:

Total transportation cost for the material = Rs.2000/-

Transportation cost of the boiler to the installation plant = Rs. 4500/-

4) Miscellaneous cost =Rs.1000/-

Thus,

- Total cost = (cost of purchased material + labor charge
 - + travelling allowance + miscellaneous cost)

= 59800 + 35000 + 18000 + 2000 + 4500 + 1000

= Rs1,20,300 /-

RAJAS ENGINEERING

₩ - 42. ADDITIONAL M.I.D.C., SATARA - 415 004. ②: (02162) 240698-240699

Date 05/05/2016

LETTER OF APPRECIATION

Fair-ing students from K.B.P. College of engineering Satara,

- Mr. Jadhav Abhijit Ashok.
- Mr. Patil Vishwajit Ashok.
- Mr. Sonavane Tejas Dhananjay.
- Miss. Thorawade Siddheshwari Bhagatsing.

Under the guidance of Prof. P.L.Jadhav completed their Project "Design and Development of Multi Spindle Drilling and Spot Facing Head Attachment" in our Organization.

Their efforts contributed excellent Output as,

- 1. Productivity increased four times than the previous process.
- Manpower reduced by 75%.
- Material Handling and Fatigue of Human reduced considerably.
- 4. Proteck Period for above mention head attachment is only two months which is very
- 5. Take cost saving is approximately Rs.70000 per annum.
- * Manage operation and rejection percentage decreased drastically.

We are freshful to K.B.P. College of Engineering Satara for Consulting and Assisting in show project.

> Mr. Rajendra Shinde Proprietor, Rajas Engineering

Satara.

7. COST ANALYSIS

7.1. Housing:

- i) Raw material cost = $2.5 \text{ kg} \times 160 \text{ Rs/kg}$ = Rs. 440
- ii) Machining Cost

Table 5 Machining Cost of Housing

Sr. No.	Machine Used	Operation	Rate(Rs/hr)	Total time(hrs)	Cost (Rs)
ĵ	Lathe	Turning and Boring	85	3	255
2	VMC	Boring	1800	4	4000
3	Drilling machine	Drilling	20/hole	5	100
4	Tapping machine	Tapping	5/hole	5	25
	<u> </u>			Total =	4380

: Total Cost of Housing = Rs. 4820

7.2. Gearing:

Sr. No.	Components	Rate per Teeth		0	C
DI. 1101	Components	Kate per rectif	No. of Teeths	Quantity	Cost (Rs
ı	Pinion	8	19	5	760
2	Sun gear	8	25	1	200
3	ldler	8	60	1	480
				Total =	1440

.: Total Cost of Gears is Rs. 1440

7.3. Spindle (SAE8620):

i) Raw Material Cost = Amt. of raw material required x Cost per kg

 $= 5 \times 60$

 $= R_5.300$

ii) Machining Cost

Table 7: Machining Cost of Spindle

Sr. No.	Machine Used	Operation	Rate (Rs/hr)	Total time(Hr)	Total Cost(Rs)
1	Lathe	Centering Rough Turning Drilling	80	7.3	600
2	Milling	Keyway	150	1.3	225
3	Grinder	Grinding	350	5	1750
				Total =	2575

Total cost of spindle = Raw material cost + Machining cost

=300 + 2575

= Rs. 2875

: Total Cost of Spindle is Rs. 2875

7.4. Shaft (SAE8620):

i) Raw material cost = Wt of raw material x cost per kg

 $= 1 \times 100$

= Rs. 100

ii) Machining cost

Table 8: Machining Cost of Shaft

Sr. No.	Machine Used	Operation	Rate (Rs/hr)	Time (Hr)	Cost (Rs
1	Lathe	 Centering Turning Taper Turning Drilling Grooving 	80	3	240
2	Milling	Keyway	150	2	300
3	Grinder	Grinding	350	In the second	350
		1		Total =	890

Total cost of shaft = Raw material Cost + Machining Cost

= 100 + 890

= Rs. 990

.: Total Cost of Shaft = Rs. 990

7.5. Cost of Purchased parts:

Table 9 Cost of Purchased Parts

Sr. No.	Description	Cost per Piece	Quantity	Cost (Rs)
1	Ball Bearing(6901)	250	10	2500
2	Thrust Bearing(51101)	55	5	275
3	Ball Bearing(6902)	190	2	380
4	Ball Bearing (6004)	192	1	192
5	Drill Ø4.2 carbide	650	4	2600
6	Drill Ø3.2 carbide	450	1	450
7	Nut M12	9	6	54
8	Grub Screw	3.1	5	15.5
9	Retainer Ring	30	1	30
10	Bolt M6	3	5	15
11	Key	35	7	245
12	Washer	5	6	30
13	Circlip	20	1	20
			Total =	6806.5

7.6. Total Cost:

Total Cost of Multi spindle drilling Head

- = Cost of Housing + Cost of Gear + Cost of Spindle + Cost of Shaft + Cost of purchased parts
- = 4820 + 1440 + 2875 + 990 +6806.5
- = Rs. 16931.5
- = Rs. 17000
- : Total cost of Multi spindle drilling Head is Rs. 17000

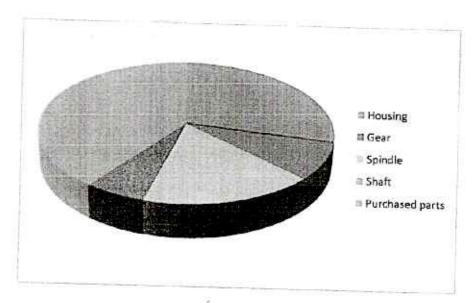


Figure 10: Pie Chart Diagram for Total Cost

ENSACTIFIC GEAR TRANSMISSIOMS (P) LTD.

PARAMOD \$8654 LOS GEN

19646 . N-9, CIS M.I.D.C., S.-1. F.- + +15 004 (M.S.) INDIA.

Tele : Fz. , 191-2162-246 65::.

MODEL N. 9422038525, 9421115272, 9822379065

E-mail: beacongearscatara@yahoc.com Web : beacongeanransmissions.com

Rel. No. 57/2015



To Principal Karmaveer Bhaurao Patil College of Engineering & Polytechnic Satara.

Subject: Regarding sponsorship for the Project work.

Ref No: Your letter dated 5/8/2015

Dear Sir.

With reference to your letter, We, Beacon Gear Transmissions Pvt Ltd herewith confirm that we would sponsor the project "Torque Testing Rig" to your students . We also assure our best co-operation in this regards.

The list of student whom project is sponsored as follows,

1.0 Matkar Indrajeet P

2 0 Jadhav Virendrasinh S

3.0 Jadhay Vishal D

4.0 Jagtap Seema B

We hope that they would make this project most innovative and useful to industry.

Regards,

Santosh U Mahamulkar

Director

Date: Place: 12/8/2015

Satara

SEACON GEAR TRANSMISSIONS (P) LTD. (SO 9001-2008 Company)

Works : W-9, Old M.I.D.C., SATARA - 415 004 (M.S.) INDIA

Feta / Fax : +91-2162-246 693

luct. No. 9422038525, 9421119272, 9822379065

E-mail: beacongearssatara@yahoo.com Wen: beacongeartransmissions.com



Date: 17/2/2016

CERTIFICATE

This is to certify that following students from BE Mechanical of KBP College of Engineering ,Satara have completed project of Load and Torque Testing of Gearboxes

1.0 Matkar Indrajeet Pandurang

2.0 Jadhav Virendrasinh Sanjay

3.0 Jadhav Vishal Dattatray

4.0 Jagtap Seema Bankat

This is project is very useful for Torque Testing of our Gearboxes and saved our labour cost as well time. We are satisfied with the performance of the Load and Torque Testing equipment.

We wish them all the best for future endeavours.

With best regards,

For Beacon Gear Transmissions Pvt Ltd

Authorised Signatory



COST ESTIMATION

SR.NO.	NAME	QUANTITY	WEIGHT KG/PIECE	RATE RS/KG	AMOUNT RS.
1	C Channel	4	23	35.5	3266
2	Flywheel	1	32	50	1600
3	Shaft	1	15	55	825
4	Coupling	1	8	55	440
5	Bearing UCP 212	2			1523
6	M10 Bolts	4	i fi		50
7	M12 Bolts	4	-		70
8	Washer	8	-	-	25
9	Key	1	-	-	50
10	Spring Balance	1	-	-	600
11	Rope	1	-		100

Table no.8: Cost estimation

TOTAL MATERIAL COST = 8550Rs.

MACHINING COST AND LABOR CHARGES (40%OF MATERIAL COST)

= 3419.6 Rs.

PROFIT (25% OF MATERIAL COST) = 2137.5 Rs.

PAINTING = 750 Rs.

TOTAL COST OF MACHINE = 14857.1 Rs.

R/U

= 15000 Rs.

onstruction Machines and

Plot No. 8 Somanath Colony, Sambhajinagar,

Degaon Road, Satara- 415004, Ph. -91(2162)246234

Plot No. L-60, Addl. MIDC Salara-415 003. Ph. 91(2162)240550 240904 240905

> Date: 11/2/2016

LETTER OF CONSULTANCY

Following students from K.B.P . College of engineering Satara.

- 1. Mr. Kore Amar Shankar
- 2. Mr. Kale Yogesh Uttam
- 3. Mrs. Wagh Komal Hanmant
- 4. Mr. Devade Attmaram Anandao

Under the guidance of Prof. S.S. Patil sir completed their Project "Egg Laying Type Concrete Block Making Machine" in our Organization.

Their efforts contributed excellent Output as,

- 1. Productivity increased four times than the previous process.
- 2. Material Handling and Fatigue of Human reduced considerably.
- 3. Payback Period for above mention head attachment is only two months which is very low.
- 5. Total cost saving is approximately Rs.70000 per annum.
- 6. Missing operation and rejection percentage decreased drastically.

We are thankful to K.B.P. College of Engineering Satara for Consulting and Assisting for above project.

> Mr. Balasaheb Gonugade Balaji constructions Pvt. Ltd

Balaji Construction Machines and Spares

Plot No. 8. Serminath Colony, Samishajinagar,

Degaon Road, Satarti- 418064 Ph 91(2162)246234

Ph. No. 1460-Addl. MIDC Sauru 415,002 Ph. -91(2162)240550-240004-240005

Date: 1 - 10 - 2015

To.

The Principal,

K. B. P. College Of Engineering,

Satara.

Subject: Project Work.

With reference to the letter of your college regarding project work following students are permitted to collect project data for "Egg Laying Type Concrete Block Making Machine".

- 1. Kore Amar Shankar.
- 2. Kale Yogesh Uttam.
- 3. Devade Atmaram Anandrao.
- 4. Wagh Komal Hanmant.



Balaji Construction Machineries And Spare Parts Ltd.

Add. MIDC, Satara.

rww.balajimachines.com E-mail :- balasaheb 11@gmail.com

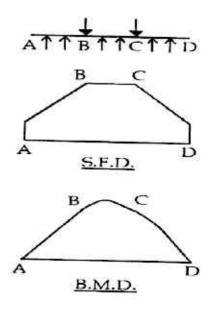


Figure No.27 Force analysis of punch

2.7 COST ESTIMATION OF MACHINE

Total cost of the egg laying type concrete block making machine.

I) Row material cost = Rs 63713

2) Labor cost = 30% of row material cost

= Rs 19143

3) Fix cost =5 % of row material cost

= Rs 3185

4) Administrative cost = 5 % of row material cost

= Rs 3185

Egg Laying Type Concrete Block Making Machine

5) Marketing cost

= 10 % of row material cost

= Rs 7371

6) Variable cost

= 5 % of row material cost

= Rs 3185

7)Draft cost

= 10 % of row material cost

= Rs 6371

Total cost

=(63713+19143+3185+3185+6371+3185+6371)

= Rs 105153.

2.8 INSPECTION OF MACHINE

Table 7 Inspection Chart

Sr. No.	Inspection Points Descriptions	Std Drg-size	Mark	Date	Inspected By
1	Body in to in				0
2	Body diagonal				-
3	Center distance between punch bar	315			
4	Center distance between mould bar	980			-
5	Tank size	300*200*200			

KBPCOE, SATARA.

Page 47

Balaji Construction Machines and Spares

Regd. off. Plot No. 8, Somanath Colony, Sambhajinagar.

Degaon Road, Satara- 415004.

Ph. +91(2162)246234

Office Plot No. L-60, Addl. MIDC Satara-415 004.

Ph. +91(2162)240550 / 240904 / 240905

Ref

Date:

02/09/2015

To.

Karmaveer Bhaurao Patil.

College of engineering

Satara.

Subject: Sponsorship for Project Work.

Sir.

We "Balaij construction machines", would like to sponsor a project to the following students for the academic year 2015-16.

- 1) Ms. Pandit Shital Kailas
- 2) Ms. Mayane Rani Gajanan
- 3) Mr. Badbade Kaustubh Jitendra

The students will follow all the rules and regulations of our organisation at the time of Project Work.

Thanking you,

Easter Construction Machines, Satara.

Balaji Construction Machines and Spares

legd off. Plot No. 8, Somanath Colony, Sambhajinagar.

Degaon Road, Satara- 415004. Ph. +91(2162)246234

Office

Plot No. L-60, Addl. MIDC Satara-415 004. Ph. +91(2162)240550 / 240904 / 240905

Date:

LETTER OF APPRECIATION

Following students from K.B.P. College of engineering Satara,

Ms. Pandit Shital Kailas.

Ref

- 2. Ms. Mayane Rani Gajanan.
- Mr. Badbade Kaustubh Jitendra.

Under the guidance of Prof. S.S. Patil completed their Project "Brick Crushing Machine" in our Organization.

Their efforts contributed excellent Output as,

- 1. Productivity increased four times than the previous process.
- 2. Manpower reduced by 75%.
- 3. Material Handling and Fatigue of Human reduced considerably.

We are thankful to K.B.P. College of Engineering Satara for Consulting and Assisting for above project.

Proprietor,
Balaji Construction
machines, Satara.

12.1 Raw material costing:

1. Main frame 75*40=

Cost = total weight * machining cost + machining rate+ (material wt.*labor cost)

= 802 Rs.

2. main frame 75*40=

Cost = total weight * machining cost + machining rate+(material wt.*labor cost)

$$=4.52*37+54+(4.52*18)$$

= 302.6 Rs.

3. angle 40*5 =

Cost= total weight * maching cost + maching rate+(material wt.*labor cost)

= 107.64 Rs.

4. angle 40* 2=

Cost = total weight * maching cost + maching rate+(material wt.*labor cost)

$$= 0.86 * 37 + 18 + (0.86 * 18)$$

= 65.3 Rs.

5. foundation plates =

Cost = total weight * maching cost + maching rate+(material wt.*labor cost)

$$= 37.37 * 37 + 20 + (37.37 * 18)$$

= 821.27 Rs.

6. body =

Cost= total weight * maching cost + maching rate = 1738.69

7. shafts=

Cost = total weight * maching cost + maching rate = 2581.86

12.2 Machining Cost:

Sr. No.	Machine Used	Machine Hr.	Time	
1.	Drilling machine	Rate	(Min)	Total Cost (Rs
2.	Lathe machine	70	120	140
3.	Grinding machine	90	1500	2250
	Bending	300	30	150
	Tapping	10	30	130
	Welding	60	60	60
	TOTAL	10	1440	240
				2845

12.3 Cost of Bought Out Parts:

No.	Component	Quantity	Cost	Total Cost (Rs.)
1.	Flywheels	2		860
2.	Vee belts	2		1950
3.	Bearing	4	5800	5800
4. 5.	Bearing plates	4	3051	-
	Crusher plates	2	3656	3051
6.	Motor	1 1		3656
7.	Spring		5063	5063
8.	Nut bolts	1 1	550	1100
9.	Motor	16	440	440
<i>'</i> .		1	4500	4500
	TOTAL			56614.43

Total cost:

= cost of raw material + machining cost + cost of bought out part

= 6419.36 + 5270 + 56615

= 68304.36 Rs

Overhead (20% of total price) = 13660.87 Rs

Total cost = 68304.36 + 13660.87 = 81965.23 Rs.

Ist Prize Winner for Natrict's Best Industrial Award for Year 2007.



ABHIJAT 36 EQUIPMENTS PVT. LTD.

Regd: Off. & Works: 19/4, Molacha Odha, Satara-415 002, Maharashtra (India) Board: 0091-2162-250196, 251091

Cell: 0091-9860129600 Fax: 0091-2162-250596

E.mail: sales@abhijatequipments.com Website: www.abhijatequipments.com

Date: - 11/05/2016

To , The principle KBP College of Engineering Satara .

Sub:- Sponsorship for project to B.E.Mechanical Student

Dear Sir,

M/S Abhijat equipment Pvt.ltd. Satara is an ISO 9001:2008 certificate unit promoted by qualified and experiment technocrats. The promoters have experience in manufacturing various machine tools like automats, capstan, special purpose drilling machine and CNC machine tools These machine tools are also exported to USA, U.K. middle East countries in addition to indigenous market.

We have very good set up for design and manufacturing of machine tools and are always in development of innovative quality tools.

We are sponsoring a project "DESIGNIG OF HYDROLIC POWER PACK" to the following final B.E. Mechanical degree students of your inspection.

	Name	Roll No
1.	Miss. Chavan Chhaya Sitaram.	48550
2.	Mr. Kumbhar Sushant Namdeo.	42009
3.	Mr. Narayane Sagar Ramakant.	48529

Hope this will enhance industry- institute- interaction and promote young budding engineering students.

For Abhijat Equipments Pvt. Ltd

Design Manager

I^{pt} Prize Vinner for **Istrict's** Best Industrial Award for Year 2007.



ABHIJAT EQUIPMENTS PVT. LTD.

Regc. Off. & Works : 19/4, Molacha Odha, Satara-415 002. Maharashtra (India) Board : 0091-2162-250196, 251091

Cell: 0091-9860129600 Fax: 0091-2162-250598

E.mail: sales@abhijatequipments.com Website: www.abhijatequipments.com

Date :- 11/05/2016

CERTIFICATE

This is certify that, the following Final year B.E.Mechanical students of KBP College of Engineering, Satara.

NAME	EXAM SEAT NO
1. Miss. Chavan Chhaya Sitaram.	48550
2. Mr. Kumbhar Sushant Namdeo.	42009
3. Mr. Narayane Sagar Ramakant.	48529

Have successfully completed the project – Designing of Hydraulic Power Pack", in shortest time span.

In this entire project work execution, we found above students are innovative, hardworking and sincere.

For Abhijat Equipments Pvt.Ltd.

Design Manager

TABLE 1.9.2 COST ESTIMATION

Sr.	COMPONENTS	MAKE N MODEL	QUANTITY	COST	TOTAL
1.	Motor (0.5HP) Foot Mounted	Hindustan	1	5570	5570
2.	Gear Pump(12LPM)	Yuken	1	5800	5800
3.	Suction Filter (15 LPM)	Hydroline SC3	1	650	650
4.	Bell Housing	Polyhydron	1	1400	1400
5.	Coupling between pump and motor shaft	Polyhydron	1	600	600
6.	Coupling for Pipe (16 mm)		2	240	480
7.	Oil Level Indicator		1	450	450
8.	Drain Plug		1	125	125
9.	Pressure Gauge Coupling		1	130	130
10.	Plug For Manifold		1	80	80
11.	Oil Breather	FSB-25	1	340	340
12.	Solenoid Valve (230 volt)	Yuken DSG-01	1	5600	5600
13.	Return Line Filter	Polyhydron HFR	1	1100	1100
1.4	Plug For Part Catcher		1	80	80
14.			1	80	80
15. 16.	Male Connector Pressure Gauge (63 mm		1	1250	1250
10.	dial)				1700
17.	Flow Control Valve	Shakti	2	850	1700
8.			10	20	200
10048 1	Clips V. L. Car Port Catcher	Yuken	1	3600	3600
9.	Valve for Part Catcher		1	950	950
0.	Pressure Reducing Valve		1	2200	2200
11.	Manifold		1	1800	1800
2.	Tank (600*300*200)				34185
200	OVERALL COST				

PAGE 55







April 10th, 2016

To.

Head of the Department

Mechanical Engineering,

KBP College of Engg. Satara.

Subject: - Final year project entitled "Gear Rolling Tester"

Dear Sir,

The following students of final year degree in Mechanical Engineering you're your college had approached for their final year project entitled "Gear Rolling Tester"

The project has been completely designed and fabricated in our premises as per their specifications. They had undergone Project from 11th July, 2015 to 11th April, 2016 in Production Department Under guidance of Mr. Shrikant Pawar (CMD). During the above period they found sincere & hard working and they has taken proper initiative and efforts towards completing the Project.

- 1) Rohit Dilip Patil
- 2) Shubham Vitthal Pawar
- 3) Utkarsh Surendra Dange
- 4) Hrishikesh Ravindra Mane

For Top Gear Transmissions,

100 Mg -

Mr. Shrikant Pawar Managing Director

GEAR ROLL TESTER | 2016

COST ESTIMATION:-

No.	Item Name	Mtrl. Weight (Kg.)	Raw Mtrl. Rate/Kg	Qty.	Mtrl. Cost	Total Machining Cost	Total Cost Rs.
1	Table	46	55	1	2530	100	2630
2	Base Plate	48	55	1	2640	2050	4690
3	Pillar	18	65	ī	1170	550	1720
4	Sliding Arm	4	60	1	240	280	520
5	Supporting Rods	1.25	65	2	163	622	785
6	Supporting Rods Clamping Plate	2	55	1	110	50	160
7	Carriage Plate	4.7	55	1	259	460	719
8	Mandrel Holder	5.9	65	1	384	366	749
9	Center	2.5	70	2	350	644	994
10	Ball Screw Guide Plate	1.75	55	1	96	140	236
11	Ball Screw Guide Bush	0.8	65	1	52	80	132
12	Plate for Guide Bush	0.7	55	1	39	65	104
13	Mandrel for Gear	9	65	1	585	255	840
14	Hand Wheel	1.3	55	1	72	125	197

 $K.B.P.\ COLLEGE\ OF\ ENGINEERING,\ SATARA.$

Page 91

			GI	EAR ROI	LL TEST	TER 2016	6
15	L.M. Guideways- HGH 30CA	141	34	2	-	150	8600
16	Ball Screw With Nut- Ø24 x 716	16	-	1	٠		35000
17	Pedestal Bearing- U205			1	•		200
18	Allen Bolt- M8 x 20	.5	•	14	-	*	84
19	Allen Bolt- M10 x 40			2	2	3	28
20	Allen Bolt- M8 x 30	•	1 5	4	-		32
21	Allen Bolt- M12 x 35			6			90
22	Allen Bolt - M10 x 70	ě		10	-	*	180
23	Allen Bolt- M10 x 25		-	7			70
24	Key-6 x 6 x 40 (BER)			1	-		50
25	GRUB Screw-M6x10	<u>(2</u>	=	1	-	*	5
26	Allen Bolt- M10 x 30	-		2	-	6	24
27.	Magnetic scale & DRO	-	2	1	-	-	18000

Table no. 17 Cost Estimation

Γotal cost = Rs. 76839 /-

LB.P. COLLEGE OF ENGINEERING, SATARA.

Page 92



Completion Letter

This is certify that the student from K.B.P. College of engineering, Satara completed their Final year project in our company "YASHRAAJ ETHENOLL PVT.LTD. LIMB, SATARA". The project name is "ANALYSIS AND EFFICIENCY IMPROVEMENT IN COAL FIRED BOILER". The project during 18/08/2015 to 24/02/2016. They successfully completed under the valuable guidance of Prof. D.A. Ghatge& Mr. Latesh Pawar.

We wish best of luck on completion of his project with us.

The student's name

- 1. Tiwade Vikas Sanjay
- 2. Ramapure Devdhar Dilip
- Shinde Trushal Arjun

With best regards,

Mr.Latesh Pawar

Distillery Manager

'ashrai Ethapa' (Pasasan) Pvt.un Kushi Tal Dist. Setara

(Yashraaj Ethenoll Pvt. Ltd., Limb, Satara)





Ref. 2015-15/320

Date - 18/8/2015

The principal, K.B.P. COLLEGE OF ENGG. SATRA.

SUBJECT- Project Work

With Reference to the Letter of your college regarding project. Your following students are permitted to collect project data for "Thermal Efficiency OF Ethanol Plant"

- 1. Tiwade Vikas Sanjay
- 2. Shinde Trushal Arjun
- 3. Ramapure Devdhar Dilip





Principal,

K.B.P. College of Engineering.

Satara.

Subject: Appreciation letter for project work.

This is certify that the appreciate working of students from K.B.P. College of engineering, Sataracompleted their Final Year project in our company "YASHRAAJ ETHENOLL PVT.LTD. LIMB, SATARA". The project name is "ANALYSIS AND EFFICIENCY IMPROVEMENT IN COAL FIRED BOILER". The project manufacturing duration 18/08/2015 to 24/02/2016. They successfully completed their project in the shortest time period. The students work very hard and they saved approx.Rs. 13400 as compared to market price. Also increases the life and Efficiency of Coal Fired Boiler. These achievements are appreciable. This project is completed under the valuable guidance of Prof.D.A.Ghatge &Mr.Latesh Pawar.

We wish best of luck on completion of their project with us.

Student's Name:

- 1. Tiwade Vikas Sanjay
- 2. Ramapure Devdhar Dilip
- 3. Shinde Trushal Arjun

With best regards,

Distillery Manager Mr. Latesh Pashraj Ethan W. Processing Pyt. Ltn (Distillery Manager) Tal Dist. Satara

(Yashraaj Ethenoll Pvt. Ltd. Limb. Satara)

innova engineeing

Works: - SLU W-5, Addl. M I D C , Satora.

Office:- F1 Band Plaza, Sadar Bazar, Camp, Satara

Mab No:- 9423032705

Office :- 02162 - 237645

E mail:-innovabigideas@ymail.com

RAFINCE - IE/2015-16/233

Date=25/8/2015

To.

The Prescapal,

KarmaveerBhauraoPatil College

Of Engineering, Satara

Sub: Sponsorship for the UG project work.

Date: 17 Jan 2016

Respected sir,

We have received your letter Ref No KBPCOES/15-16/2276 regarding sponsorship for project by following students of final year Mechanical engineering:

- SURAL PIKANASE
- 2. NIRANJAN A GUARE
- MADHURA H JOSHI
- 4. MONIKA R GAJADHARANE

We have understood the project and have decided to help them by sponsoring the project.

Thanking you,

Sincerely

For Innova Engineering

Works.-W-5 Siu Add M.I.D.C Satara

SAGAR BAND Off

Band Plaza Camp Satara

For INNOVA Engineering

ί

innova engineering

S.L.U. w-5 addi, MIDC

SATARA

Ph: 02162 237646,9423032705

RAF. NO_ 18/2015-11/821

DATE:7 MAY2016

Certificate of Completion

We hear by declare that following students of "Karmaveer Bhaurao Patil College of Engineering, Satara" have successfully completed a project at our company.

The project which was entitled as "Design and Development of Mechanical Solar Tracking System" mainly emphasized on development of a simple yet efficient sun tracking mechanism using a motor, speed reduction gear box and real timer

The names of the students participated are as follows

- Suraj Pramod Kanase
- Niranjan Ajay Gijare
- Madhura Hemant Joshi
- Monika Rajendra Gajadharane

We wish them all the best for their future endeavours.

Sagar band

For Innova Engineering Works, 14-3 St. Add.M.i.D.C.Satara Off.-F-1 Earld Plaza Camp,Satara

innova engineering

S.L.U. w-5 addi. M I D C

SATARA

Date: May 7, 2016

Letter of Appreciation

This is to certify that following students of "Karmaveer Bhaurao Patil College of Engineering satara" have completed their final year project in our company "INNOVA Engineering", addl MIDC satara. They worked very hard and successfully completed the project titled as "Design and Development of Mechanical Solar Tracking System" under given time and constraints efficiently. These achievements are really appreciable. This project was completed under the guidance of Mr S. A. Band & Prof. D. A. Ghatge.

The names of Students are as follows:

- Suraj Pramod Kanase
- Niranjan Ajay Gijare
- Madhura Hemant Joshi
- Monika Rajendra Gajadharane
 We wish them all the best for their future endeavours.

Sagar band

For Innova Engineering Works.-W-5 Slu Add.M.I.D.C;Satara Off.-F-1 Band Plaza Camp,Satara

6.1 Cost Of Purchased Components

Table 6.1 Purchased components

SR NO.	COMPONENT	MATERIAL	QTY	COST (₹)
1	Solar Panel	Polycrystalline Silicon	2	7,500/-
2	Ac Synchronous Motor	STD	1	2,081/-
3	Real Timer	STD	1	700/-
4	Limit Switch	STD	2	3400/-
5	Pulley	Al	2	300/-
6	V-Belt	Rubber	1	100/-
7	Gear Box	STD	1	7000/-
8	Pillow Block	STD	3	300/-
9	Nut	STD	24	200/-
10	Boit	STD	22	200/-
11	Grub Screw	STD	4	20/-
12	Washer	STD	8	04/-
13	Circlip	STD	1	02/-
14	Contactor	STD	1	2300/-
15	Battery	STD	1	5000/-
1670	Total			28526/-

Al: Aluminium STD: Standard Part

6.2 Raw Material and Labour Cost

The total raw material and labour cost as per the components = ₹80/kg

6.3 Man Power Required

- 1. Turner
- 2. Machinist
- 3. Welder
- 4. Helper

6.4 Infrastructure and Machinery Required

- 1. Lathe Machine
- 2. Grinding Machine
- 3. Cutter
- 4. Milling and slotting Machine
- 5. Drilling
- 6. CO2 are welding

6.5 Cost of Manufactured Components

Table 6.2 Manufactured components

SR NO.	COMPONENT	MATERIAL	QTY	COST (₹)
1	Pinion	MS	2	400/-
2	D Gear	MS	1	800/-
3	Flange	MS	1	60/-
4	Gearbox Shaft	MS	2	500/-
5	Panel shaft	MS	1	400/-
6	Base Frame	MS	1	
7	Panel Frame	MS	1	2500/-
8	Motor Support Plate	MS	2	140/-
9	Gear Box Support Plate	MS	1	70/-
10	Key	MS	3	150/-
	Total			5020/-

Total cost of project = ₹33,827/-

RAJAS ENGINEERING

M - 42 ADDITHONAL M . D.O., SATARA - 415 DC4. (?

Deta:

SPONSORSHIP LETTER

To,

10/08/2015

The Principal, K.B.P. College of Engg., Satara.

Through - Head of Dept (Prod. Engg.)

Sub: - Sponsorship for project.

Ref - Your letter dated on: 9/8/15

Respected Sir,

With reference to above mentioned letter we have allotted the project of "DESIGN AND MANUFACTURING OF MULTISPINDLE DRILLING ATTACHMENT" to the students. Further we would like to mention that said project work is sponsored by us during the academic year 2015-2016 with necessary technical guidance.

We assure you full support to the student to complete their project in time.

Student Names:-

- 1) Bhosale Mayuri Dilip
- 2) Chavan Priyanka Shivaji
- 3) Shelar Prajakta Sampat
- 4) Tambe Sonali Sanjay

Thanking You,

Yours Faithfully,

Rajas Engineering, Partner. Balaji Construction Machines and Spares

Plot No. 8. Somanath Colony, Sambhajinagar

Degaon Road, Satara- 415004

Ph. +91(2162)246234

Plot So. 1,-60, Addl. MIDC Satara-415 004 1.21.11.1

Ph -91(2162)240550 240904 240905

Date: 12 - 54 - 201

To,

Head of the department,

Production engineering,

Karmaveer Bhaurao Patil College of Engineering, Satara

Subject:-Completion of project work "6445 Fly ash bricks making machine"

Respected Sir,

There is to certify that following students of B.E. Production, K.B.P. College of Engineering, satara have successfully completed their project work in our industry during the academic year 2015-A STATE OF THE STA 2016.

Name of the students:-

Bhutkar Guruprasad R.

Gaikwad Vrushali S.

Jadhav Dhanashri V.

Nalawade Shilpa V.

Shinde Nayana R.



KE

Plot No.- 71, Additional M.I.D.C., Satara- 415004.

WIRE ENGINEER REPORT OF FREE

► (O)(02162)240322/320758.Mob.:9673002991/92Emial- Kavadeengineering@gmail.som

Date:

To,

Head Of Department,

Production Engineering Department,

K.B.P. College Of Engineering, Satara.

Subject: Regarding sponsorship of project (Indexing Head Fixture).

Respected Sir,

As per the requirement of our industry ,the following students of B.E. Production, K.B.P. College Of Engineering , Satara , have been sponsored for the completion of project work (Indexing Head Fixture) during the academic year 2015-2016. We are granting them the permission for undertaking the project work in our industry.

Name Of Students -

- BHOSALE ANIKET D.
- 2. HABLE OMKAR R.
- 3. JADHAV ANIKET S.
- NALAWADE SUSHILKUMAR S.

N-71 Aridi MIDO Sale *.

(Production Manager)

KARAD PROJECTS AND MOTORS LIMITED

Thors Cowned Subardiary of Kirlsakar Brothers Limited)

Someny known as Kirlosk at Constitutions and Engineers Limited)

Ref.: KPML/HRM & C/ 2

18.11.2014

To, The Principal, K. B. P. College of Engineering Satara.

Sub.: Industrial Project Work for Final year Degree students.

Dear Sir,

This has reference to your letter dt. 10.11.2014, we would like to inform you that, following degree students of your college have been permitted to do the project on "Semi-Automatic Riveting Machine" at our Stamping Division for the academic year 2014-15.

- Mr. Patil Udayraj Uttamrao
- 2. Mr. Bakale Ramesh Gopichand
- 3. Mr. Ghadge Ranjeet Dilip
- 4. Mr. Patil Vijay Sambhaji

You are requested to inform the students that, the information collected from Company shall be maintain in strictly confidential and they will follow the rules of the Company during their project work.

Thanking You,

Yours Faithfully,

For Karad Projects and Motors Ltd.,

Mahesh Patil

Associate Manager – HRM & C

Projects Division: Wyog Shavan Tida: Road Pune 411 002 (India) Phone +91 20 2444 0770 Fax +91 20 2444 0156

Motor Division: Plot B-67 & 68 MIDC Karad Industrial Area, Tasawade, Karad 415 109 (India) Phone +91 2164 258424 Fax +91 2167 258425

Division: Plot D-2 & D-2/1, MIDC Karad Industrial Area, Tasawade, Karad 415 109 (India) Phone: +91 2164 258515 Fax: +91 2164 258522

Component Division: 775/B, Piot No. 11, Karad Wiebewudi Road, Winy 415 122 (India) Phone +91 2164 267061 Fax +91 2164 267522

Mechanical -14-15 Engry

CIN-L35912MM1975F1C01a3B3 Website: www.mahascooters.com



MAHARASHTRA SCODTERS LTD.

Factory : C-1, M.I.D.C. Area, Satura - 415 004 (India) Phone : 02162 - 244668 (3 lines) FAX : 02162 - 244428

MSL:Pers:

November 02, 2014

The Principal KBP College of Engg & Polytechnic Camp. SATARA – 415 001.

Dear Sir,

Sub.:Project work.

With reference to your letter dated 08-10-2014, we are pleased to inform you that your following students of Final Year Degree (BE-M) are permitted to carry out the project on "Grinding Wheel Dressing attachment of ELB Surface Grinder Machine" in our establishment (Tool Room Dept.) during the month of January / February, 2015. The project cost will be borne by you.

- 1. Mr. Sudhir Maruti Patil
- 2. Mr. Vikas Bandopant Patil
- 3. Mr. Prashant Vidhyadhar Sangave
- 4. Mr. Prakash Kailas Shendage

Thanking you

Yours faithfully.

For MAHARASHTRA SCOOTERS LTD.

40

Dy.General Manager

c.c.to: SRM(Tool Room) / Security Dept./ Canteen

Ragd. Office: C/o Bajaj Auto Limited, Mumbai-Pune Road, Akurdi, Pune 411 035 (India) Phone: 020 - 27475811-12-13 / 27472851. Fax: 020 - 27472764 CIN-L35912M41975PLC0183\$6 Website: www.manascooters.com



MAHARASHTRA SCODTERS LTD.

Factory: C-1, M.I.D.C. Area, Satara - 415 964 (India) Phone: 02162 - 244666 (3 lines) FAX: 02162 - 244428 24th April 2015

MSL:Pers:

CERTIFICATE

This is to certify that the following students of BE (Mechanical) of KBP College of Engineering & Polytechnic, Satara have successfully completed & prepared project on "Grinding Wheel Dressing attachment of ELB Surface Grinder Machine" at MSL, Satara."

Project Group -

- 1) Mr. Sudhir Maruti Patil
- 2) Mr. Vikas Bandopant Patil
- 3) Mr. Prashant Vidhyadhar Sangave
- 4) Mr. Prakash Kailas Shendge

We are delighted to help them in their endeavour.

FOR MAHARASHTRA SCOOTERS LTD.

B.V.Dareka Asstt. Manager [Accounts & Personnel]

> Regd. Office: Clo Bajaj Auto Limitad, Mumbai-Pune Road, Akurdi, Pune 411 035 (India) Phone: 029 - 27475811-12-13 / 27472851. Fax: 020 - 27472764

AUTOMATIC PARALLEL DRESSING ATTCHMENT

As for project it is important to

- Costing of product
- 2) Planning and control of costs
- Cost analysis
- Cost reduction

To serve all those purpose cost accounting is done

4.3. COST OF PURCHASED PARTS:

Sr. No.	Description	Qty	Material	AMOUNT(RS)
1.	Double acting Hydraulic cylinder	1	Aluminium	6000
2.	Solenoid Valve	2	Aluminium	
3.	Flow control Valve	1	Aluminium	1520
4.	Direction Control Valve	1	C.I.	2563
5.	Bearing(no. 6000)	1		2200
6.	Spring	1	M.S.	2090
7.	Washer	2		820
	TOTAL			19573

Table No.4.1 COST OF PURCHASED PARTS

4.4. COST OF MANUFACTURING PARTS:

Sr. No.	Description	Qty	Material	AMOUNT(RS)
1.	Base plate	1	M.S.	1500
2.	T- section	1	M.S.	200
3.	C-section	1	M.S.	150
4.	Ram	1	M.S.	
5.	Upper plate	1	M.S.	ų.
6.	Cylinder	1	EN535	
7.	L.H.Screw	1	EN535	
8.	Cap	1	EN535	200
9.	Ring nut	1	EN535	
	TOTAL			2050

Table No.4.2 COST OF MANUFACTURING PARTS

Total cost

= cost of purchased material + approximate machining cost + travelling allowance + miscellaneous cost

- Cost of purchased parts = RS. 19573/-
- 2) Approximate machining cost :

Labor hour rate:

For a worker = Rs.150/hr.

No. of shifts/day = 1

A) Attachment:

Cutting = Rs.80/-

Welding = Rs.50/-

Drilling = Rs.40/-

Fitting = Rs.50/-

B) Probe:

Cutting = Rs.40/-

Welding = Rs.40/-

Fitting = Rs.30/-

Total machining cost = Rs. 2050/-

3) Travelling allowance:

Total transportation cost for the material = Rs.1200/-

Transportation cost of the project to the college = Rs. 600/-

4) Miscellaneous cost = Rs.1000/

Thus.

Total cost = (cost of purchased material + approximate machining cost + travelling allowance

- miscellaneous cost)

= 19573 + 2050 + 1800 + 1000

= Rs. 24423/-

LETTER

VEER SATARA SAHAKARI SAKHAR KARKHANA LTD., BHUIN.

P.O.: Kisanveernagar, - 415 530,Tal, Wal, Dist. Satara. (Maharashtra)

VALUE : 27220308700 V C.S.T. TIN . 27220388700 C.

ECC No AAAAKO947AIXM001 PAN No. AAAAKO947M

KISANSAKAR (Dhom)

(Subject to Satara Jurisdiction)

Ph.: No. 285240 / 285243 / 285143

Mob.: 8500110005/6/7 Fax No.: (02167) 285147

E-mail: Esansugar@yahoo.com kisanveersugar@gmail.com

Web.: www.kisanveerssk.com

Ref No

ADM/ILR/2015-16 No 3 6 7

Date 11-7 APR 2015

Certificate Of Completion

To.

The Principal

Karmayeer Bhaurao Patil College of Engineering.

& Polytechic Camp-Satara,

Maharashtra, India,

Pin-415001,

This is to certify, following student have successfully completed sponsored project work in " Performance Analysis of Induced Draft Counter Flow Cooling Tower" at Kisanveer Co-Gen Plant in a Project Period of 1st September 2014 to 1st March 2015.

- 1. Akshay Mukund Patil
- Amar Udaysingh Mohite.
- 3. Ayiraj Raghunath Katkar
- 4. Akshay Sudhir Katkar

This Certificate is being issued as per their academic requirement.

D:\All FileTime\In Plant Traing\Project Certificate.doc

BERFORMATO E ANALYSIS OF ISDUCED DRAFT COURTER FLOW COOLING, LOWER

KV85E1 having 1995a alone holder & covering 540 village in the and of operation is one of leading the operative agen will beging the following samily base to our 11 0 C2010).

Table No 1.4: Share holders

Nr. no.	Particulars .	No. of Members	No. of Shares	Amount (Rs.in laklis)
1	Member Farmers	37810	38484	1838-30
3	Chryf	1		499 35
1	Empletica	200	48?	12.84
4	Share Anamal			8.33
	Total	08066	38966	2358.82

KVSSSKI has good quality availability in the area and sugar mill has demonstrated the peak capacity of even more than 5350 TCD in the year when the cane production was in substantial quantity. Excellent ground work done in cane development and management.

1.3 Come Development Activities And Availability

The entire command area at the mill is well irrigated, with an average cane yield of 75 to 80 MT, per ha.

Table No 1.5: Details of cane availability for last 3 years. (Figures in heefare)

Season	Area under cane (Reg.)	Seed	Jaggary	Fodder	Otherfactory	Availablecane
2008-09	11473.18	124.61	9.55	390.81	2026.08	8921.64
2009-10	11919,94	180.49	13.90	107.83	1857.10	9760.62
2010-11	14841.37	121,06	17.40	284.87	3378.86	11039.38

1.4 Other Developments

1.4.1 Bio-culture Laboratory

The factory has a Bio-fertilizers manufacturing unit for increasing Production & improving quality of crops in nearby area.

Objective

Organic manures being slow in releasing nutrients and available in insufficient quantities cannot meet the total nutrient requirements in crop production. As the costs of chemical fertilizers have increased by double, the farmers can not apply a

Page 5

Table No 1.1: The project cost/equity & loan for completion of project cost as under (Rs in lakhs)

Sr. no.	Particulars	2009-10	2010-11
1	Land & Site Development	3901.90	3968.45
2	Buildings	3114.87	2314.21
3	Plant & Machinery	1056.34	1090.71
4	Misc. Fixed Assets	1364.28	9658.30
	Total	9437.39	17031.67

Table No 1.2: Means of Finance (Rs in lakhs)

Sr. no.	Particulars	2009-10	2010-11
1	Share Capital Members	1859.47	2138.61
2	Share Capital (State Govt.)	499.35	499.35
3	Term Loan (Institution/Banks)	2653.98	6357.96
4	Deposits	2026.34	2026.29
	Total	7039.14	11022.21

Table No 1.3: Performance of the Factory

Sr. No.	Season	Total crushing Days	Crushing (MT)	Sugar Production (Qtls.)	Recovery	Cane Payment Rs.(Per MT)
1	2006-07	197	739715	917940	12.36	1001
2	2007-08	197	806240	1065120	13.21	1001
3	2008-09	144	624985	746700	11.91	1801
4	2009-10	223	790260	962960	12.16	2111
5	2010-11	219	966236	1156300	11.97	1800 (1st installment)



HI-TECH PVT. LTD. E-4/4, Old MIDC, Satara-415003

Date-08.10 2014

50/08/2014

TO,

The principal

K.B.P. College of Engineering & Polytechnic

Satara

Sub: - Project Work

Dear Sir,

We here by confirm following student for sponsored project of.

- 1) Shridhar Kashinath Paramane
- 2) Sagar Sunil Kore.
- 3) Pankaj krushnnat Patil.
- Rushikesh Anandrao Pimple.

B.E. Mechanical Class from your College in our Organization.

- Company will not responsible to pay any expenses, stipend, and convenience allowance etc. during this period.
- In any case of fire, accident etc. company will not responsible for insurance compensation. We will extend them our co-operation and guidance during the training period.

Thanking You,

Yours Faithfully,

Mr. Ranaware D.N. Sir

Suvidha Hi-tech Pvt Ltd Satara



HI-TECH PVT. LTD. E-4/4, Old MIDC, Satara-415003

CERTIFICATE

To whomsoever it may concern.

This is to certify that following students of Karmveer Bhaurao Patil College of Engineering & Polytechnic, Satara studying in B E (Mechanical) 2014-15

- 1) Shridhar Kashinath Paramane
- 2) Sagar Sunil Kore.
- 3) Pankaj Krushnnat Patil.
- 4) Rushikesh Anandrao Pimple.

Have successfully completed the project entitled

"Design & Manufacturing of Semi-Automatic Hydro-Ishtica making Machine".

During project work we found them hard working and sincere. Also they have shown keen interest in studying.

Best wishes for their future

Mr. D.N. Ranaware

SUVIDHA HI-TECH PVT LTD

5. Cost estimation:

The total expenditure on the project work is divided into

- 1) Raw material cost.
- 2) Procured cost.
- 3) Machining cost.
- 4) Overhead cost.

5.1. Cost of raw materials:

1) Mild steel= Rs 58 per Kg.

5.1.1 Cost estimation of raw material:

1) Total cost of mild steel= total wt. of material* cost per kg

= Rs.17400/-

Total raw material cost = Rs. 17400/-

5.2. Cost of procured material:

- 1) Nut bolt = Rs 50 per kg.
- 2) Gate wheels = Rs.80/ pair.
- 3) Hydraulic pump =Rs. 8600/-
- 4) Hydraulic cylinder (Eaton make A55-04-90-500-145) = Rs.45000/-
- 5) Hydraulic cylinder accessories(D.C.V.+ Hoses) = Rs. 13850/-
- 6) Electric motor (3 phase 3 HP) = Rs.12000/-

5.2.1. Cost estimation of procured material:

Total cost of nut bolt = total Wt. of nut bolt * 50

$$= 0.500 \times 50$$

Therefore,

Total cost of procured material = total cost of (Nut bolt) + Cost of gate wheels + Cost of Hydraulic power-pack + Cost of electric motor.

= 25+80+67450+12000

= Rs. 79455/-

5.3. Machining cost:

- I. Machining cost on lathe, drill machine, grinding machine, welding machine = Rs.900/shift
- 2. Machining cost on milling machine = Rs. 1000/shift.
- 3. Machining cost on Vertical milling center (VMC) = Rs.4000/shift.

5.3.1. Total machining cost estimation:

Sr no.	Machine	Processing time utilized in Hrs.	Cost
1	Lathe machine	0.667	75.60
2	Milling machine	2.5	350
3	Drill machine	0.40	45
4	Welding machine	15.6	1755
5	Grinding machine	2.3	258.75
6	VMC	6.0	3000
	Rs.5484.35/-		

Table: 3 Cost estimation of machining.

5.4. Painting cost:

Painting cost = Rs 2.0 per kg

Therefore,

Painting cost = total wt. × Blockodising cost per kg =300×2 =Rs.600/-

5.5. Over head cost estimation

Over cost estimation = 15% of (raw material cost + procured material cost + machining Cost + painting cost)
= 0.15(17400+79455+5484.35+600)

5.6. Total cost estimation

- = Raw material cost + procured material cost + machining cost + Painting cost + over head cost
- = 17400+79455+5484.35+600+15440.90

= Rs.15440.90/-

- = Rs.1,18,380.35/-
- = Rs.1, 18, 380/-

Sponsorship Letter

KISAN YEER SATARA SAHAKARI SAKHAR KARKHANA LTD., BHUMJ

P.O.- Kisanveemagar, - 415 530, Tal. Wal, Dist. Satara (Maharashtra)

VAT TIN : 27220388700 V

C.S.T. TIN: 27220388700 C ECC No.: AAAAKO947MXM001

PAN No. : AAAAKO947M

: KISANSAKAR (Bhuinj)

(Subject to Satara Jurisdiction)

Ph.: No. 285240 / 285243 / 285143

Mob.: 8600110005 / 6 / 7

Fax No.: (02167) 285147

E-mail: kisansugar@yahoo.com

kisanveersugar@gmail.com

Web.: www.kisanveerssk.com

Ref. No.

ADM/H.R/2015-16 8 6 8

Certificate Of Completion

To.

The Principal

Karmaveer Bhaurao Patil College of Engineering,

& Polytechic Camp-Satara.

Maharashtra, India,

Pin-415001,

This is to certify, following student have successfully completed sponsored project work in " Performance Analysis & Efficiency Improvement in Thermal Power Plant" at Kisanveer Co-Gen Plant in a Project Period of 1st September 2014 to 1st March 2015.

- 1. Yogesh baban Londhe
- 2. Vishal Mohan Patil
- Nitin Ramchandra Yadav
- Subhash Ashok Kunjir

This Certificate is being issued as per their academic requirement.

D:\All FileTime\In Plant Traing\Project Certificate.doc

10.5 Process Sheet of Manufacturing Rib

Table No :10.1

Operation No.	Operation Punching	Machine Used	Tool Used	Tool Travel (MM)	Time Require (Min)
- 2		-	Punch and Hammer	1.5	20
<u> </u>	Gas Cutting	Gas Cutter	LPG Gas& O ₂ Gas	12	25
	Grinding	Power operated grinder	Flexible grinding wheel	2	20
4	Welding	Arc welding	Consumable Tungsten electrode	•	30

10.6 Total cost of the modification of Bagasse feeder is Rs.4000 only. (including labour charge)

Production England



SHALGAR FABRICATORS

Factory: Plot No: G 14, Old M.I.D.C. Satara-415004 Tel: 247272 Office: FF/3, Gayatri Apartment, opp. Circuit House, Satara - 415002 Tel / Fax: 236131

Manufacturer of: Steel cupboard, Manual and Motorized Mobile Storage Units, Control panel.

Ref no: SF/14-15/40

Date: 11.04.2015

To Whom It May Concern

This is state that "SHALGAR FABRICATORS, SATARA" has sponsored project of " Electricity Generation by Using Wind of Moving Vehicles" by

- Akshay D. Shalgar...
- · Aniket R. Mhatre.
- Deepak A. Vaidya.
- Hemant S. Mokal.

Project Guide: Prof. Shaikh A. M.

Of Karmaveer Bhaurao Patil College of Engineering Satara. As their final project in Production Engineering.

This sponsorship includes financial as well as technical support to concern students.

For Shalgar Fabricators

Proprietor

EMC FLECTROMACH COMPOSITES-

51/3C, Opp. Sangamnagar, Mahuli Road, Satara - 415 003. Tel./ Mob.: 9890373700 E-mail: emcomposites@gmail.com

Date: 31.10.2014

To.

The Principal.

K.B.P College Of Engineering

Satara.

Sub:- Project Work

Dear Sir.

We here by Confirm Following student for sponsored project report,

- 1) Mr.Bansode Pradeep Ramchandra
- 2) Mr.Bakhale Vivek Ashok
- 3) Mr.Bhosale Aniket Ravindra
- 4) Mr.Kshirsagar Aniruddha Arvind

of B.E. Production Class from your College in our Organization.

We will extend them our co-operation and guidance during the training period.

Thanking You,

Yours Faithfully.

For Electro Mach Composites

Proprietor





Address: D - 4,0id M.I.D.C., Satara (M.S.), India - 415004
Tel: (02162) 247132, 247133 Fax: (02162) 247134
E-mail: agom@dataone.in, aksahganga@aksahganga.net
Web: www.addiciaisand.com, www.cnahadaand.com

VAT TIN: 27570009480 V

CST TIN: 27870009480 C w.a.f. 01-04-2066

PAN: AAFCA9377C

C. Ex. Reg.: AAPCA9377CX0900

Ref. No.: AGCM/

Date:

Date: 30/09/2013

To,

The Principal,

K.B.P.College of Engg. and Poly.

Satara

Sub: Sponsorship to the project entitled "AUTOMATIC FEEDING AND LUBRICATION FLOW CONTROL FOR SAND MAKING MACHINE".

Sir,

It is to inform you that, we are happy to sponsor the project entitled "AUTOMATIC FEEDING AND LUBRICATION FLOW CONTROL FOR SAND MAKING MACHINE" of Mrs. Anjali Sachin Kalani, student of M. E. Electronics of your college. The work consists of following requirements:

- 1. Automatic Feeding Control
- 2. Automatic Lubrication Flow Control
- 3. Automatic Load Sensing

We are ready to provide the required help for the completion of the work and will cooperate with the student wherever required.

For Akashganga Constructional Machines Pvt. Lis

ACCM

nufacturers of Sand Making Machine VSI Crusher , Dry Plaster Band Machine, Finopaster, Cose Crusher, June Crushe Aerodynamic Screen, Vibratory Screen, Complete Crushine Plant On Yorn Key Rests

20-13-14

214



VAT TIN: 27570009480 V

CST TIN: 27570009480 C w.e.f. 81-04-2006

PAN: AAFCABS77C

C. Ex. Reg.: AAFCA9377CX1000

Ref. No.: AGCM/

Date: 14/12/2014

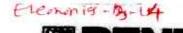
CERTIFICATE

This is to certify that Mrs. Anjali Sachin Kalani, student of M.E. Electronics, K.B.P College of Engg. And Poly. Satara has successfully completed the project entitled "AUTOMATIC FEEDING AND LUBRICATION FLOW CONTROL FOR SAND MAKING MACHINE" in our industry. We are very much satisfied with the work and the project has fulfilled our requirements.

For Managemen Constructional Machines Port Lin.



multicitures of Sand Making Machine VSI Grueher , Dry Planter Sand Machine, Finepaster, Cone Crueher, Jan Grueher Aerodynamic Screen, Vibratory Screen, Complete Cruehing Front On Ture New March





Date: 18/06/2014

To,

The principal,

Karmaveer Bhaurao Patil College of Engineering,

Satara.

Subject:-Sponsorship for Second year (M.E) project

Dear Sir.

The following M.E. (Electronics) student of your institute have been approved to undergo project work at Renu Electronics Pvt.Ltd., Baner Pune-45 from Aug-2013 to June-2014. The project will be under guidance of Mr.Sharad Patil from this establishment.

The organization will support the students in technical guidance to complete project work.

Project Name -"ARM MICROCONTROLLER BASED AUTOMATIC CALIBRATION AND TESTING OF INDUSTRIAL ANALOG MODULES"

Name of Students:-

1. Nilesh Bhandare.

Thanking you.

Yours faithfully,

Authorised Signatory.

Renu Electronics Pvt.Ltd.

An ISO 9001: 2008 and ISO 14001: 2004 certified company

Survey No. 2/6, Baner Road, Pune - 411045, India. Tel : + 91 20 2729 2840 Fax : + 91 20 2729 2839

Email: info@renuelectronics.com
Website: www.renuelectronics.com

2013-19



Date: 30.10.2014

To, The Principal, Karmaveer Bhaurao Patil College of engineering, Satara 415002.

Subject: Completion Certificate for Master Of Engineering (M.E.) Project

Dear Sir,

The following M.E. (Electronics) students of your institute have completed the approved project work, in the month of October 2014 at Renu Electronics Pvt. Ltd., Baner, Pune-45. The project was under the guidance of Mr. Sharad Patil from this establishment.

The organization has supported the students in technical as well as financial support to complete the project work.

<u>Project Name:</u> Arm microcontroller based automated system for calibration and testing of industrial analog modules

<u>Name of Student:</u>

1. Nilesh D. Bhandare

Thanking You.

Yours faithfully.

Sharad Patil

Design Engineer.

Renu Electronics Pvt. Ltd.

An ISO 9801:2008 and ISO 14001 certified company

Head Office: -Survey No. 2/6, Baner Road. Pune-411045, India.

Tel.: +91 20 2729 2840

Factory:-Gat No. 1163.

Village - Ghotawade, Tal - Mulshi,

Pune - 412115, India

Email.: info@renuelectronics.com

Website: www.renuelectronics.com

Mechanical Engy-13-14



HOLAP ENGINEERING

Get Economy through hinevation

Mr Prasenjeel C Cholan

(Proprietor)

Mrs. Tenered attendance Harry de Langery

Date: 0's/04/2014

Document No. - GE/350/002

To,

The HOD Mechanical Engineering.

K.B.P. College of Engineering & Polytechnic,

Satara

Subject: Regarding completion of Project at Bachelor of Engineering level

Respected Sir,

We are the designers and suppliers of the Special Purpose Machines & Equipment's. We are now designing the different mechanisms & system which are innovative & useful for industrial fields.

The below mentioned students from your esteemed organization have successfully completed the project entitled "Pneumatic Bar Cutting Machine" in our industry. They have gone through design, development, fabrication, machining, trial and error methods as well as productivity development processes. We are really satisfied with their sincere attendance and kind cooperation.

We wish them very good luck for their future and expect such type of cooperation from your institute in the future research works.

Thanking you.

Names of the students:

- 1. Mr. Birje Charudatta V.
- Mr. Salunkhe Abhijeet S.
- 3. Mr. Gaikwad Sushant S.
- Mr. Shelake Sagar D.

Your faithfully. For Gholap Engineering

Proprietor

6.1 COST ESTIMATION

The total raw material cost as per the individual materials and their corresponding rates per kg is as follows,

Table No.14- Raw material cost

Material	Weight in kg	Rate Rs/kg	Total cost Rs/	
HCHCr	7.28	300	2184	
MS	12	100	1200	
Total			3384	

Table No.15- Machining and process costs

Operation	Rate Rs /Hr	Total time Hrs	Total cost Rs/-
Lathe	200	2.5	500
Milling / Drilling	600	4.6	2800
Tapping	Rs100 /- per hole	6 holes	600
Hardening	•	•	300
Grinding			4500
Total			8700

Table No.16 - Miscellaneous cost

Operation	Cost (Rs)
Sawing	50
Welding	500
Bench Work	100
Total	650

TableNo.17 - Cost of purchased parts

Sr. no	Part name	Quantity	Material cost		
1	Pneumatic cylinder	1	5075		
2	Nut -Bolt	6	60		
3	Pneumatic connector	5	300		
4	Pneumatic hoses	2.5	150		
5	Foot operated valve -		1500		
6	Fork		600		
7	Male clevis	-	500		
8	Female clevis	.	500		
Total			8685		

Total Cost = Raw Material Cost + Machine Cost +

Miscellaneous Cost + Cost of Purchased Parts

= 3384+8700+650+8685

Hence the total cost of machine = Rs. 21419/-

Market cost of machine used to cut 6 mm bar is Rs. 31500/- made by Royal Exim.

6.2 ADVANTAGES OVER TRADITIONAL CUTTING METHODS

- 1. The construction is very simple.
- Air is used as working fluid which is free amount.
- Pollution free system.
- Less labour required.
- 5. It is easy to handle.
- 6. It is portable
- It is not hazardous.
- 8. It is clean system.
- 9. Light pipes are required.
- 10. Low cost.
- 11. Less consumption of time,
- 12. Skilled labour is not required.
- 13. Less maintenance.
- 14. High accuracy.
- 15. Good surface finish.



Indian Biodiesel corporation, Baramati

Ph 02112- 221382 E-mail: ibdc.bmt@gmail.com www.renewenergy.in

04/2014

2053/16

TO The Principal K.B.P.C.O.E.P. SATARA DATE: - 30/04/2014

SUBJECT: - LETTER FOR SPONSHORSHIP OF B.E. PROJECT

This to certify that, as per university syllabus the following students of B.E. (Mechanical), K.B.P. College of Engg., Satara are doing project for academic year 2013-14 with us.

Project - "Performance And Testing Of CI Engine By Using Biodiesel (Jatropha, Karanja) And It's Blends".

Miss. Shinde Bhavna Hindurao (Roll no - 061)
 Miss. Mujawar Asma Shahanvaj (Roll no - 043)
 Miss Patil Komal Krishna (Roll no - 047)

This is to certify that the project, they are going to perform is sponsored by our company & all the students have successfully completed the project work under the guidance of Prof. A.B. Degoankar sir and Ms. S. B. Chavan madam (IBDC, Bmt).

For Inciencial Company

performance of C. I. Engine using JATROPHA & KARANJA Biodiesel

Quotation

To.
Bhavna Shinde & group

MO- 09561811481

From,

INDIAN BIODIESEL CORPORATION,

Dept- Biofuel Research

Date-

24/03/2014

Email- shinde.bhavna55@gmail.com College- K.B.P. C.O.E.P., Satara

Faculty - B.E. (Mech.)

Project Title- Performace & Emission analysis on C.I. engine by using jat.

& kar. Oil

Project Guide - Prof. A.B. Degaonkar sir

Sr	Particulars	Unit	Samples	Unit Rate	Amt(Rs.)	Actual Rates
1	Diesel fuel (fossil)	LIT	1	65	65	65
2	Jatropha methyl ester (B100)	LIT	1	375	375	400
3	Karanja methyl ester i.e. biodiesel (B100)	LIT	1	380	380	400
1	Blends of jatropha Biodiesel (B20,B40,B60)	LIT	3	200	600	220
5	Blends of karanja biodiesel (B20,B40,B60)	LIT	3	200	600	220
6	Density	NA	9	140	1,260	150
7	Calorific value	NA	9	350	3,150	380
					6,430	
3	Packing charge	NA		5.20%	334	
		Total			6,764	

performance of C. I. Engine using JATROPHA & KARANJA Biodiesel

, Expenditure:-

1. Travelling& transportation = 2000

2. Biodiesel (Membership + cost) =800+ (200*5 lit.) =1800

3. Property checking =500*6 blends =3000

1 Smoke detecting equipment (PUC rent) =3000

Total = 9800 Rs.



GHOLAP ENGINEERING

Get Economy through Innovation

Mr. Prasenjeet C. Gholap

(Proprietor)

Mrs. Tejaswita P. Gholap

(General Manager)

Document no. GE/014/350

Date: 3/10/2013

To,

HOD MECHANICAL ENGG.

K.B.P. College of Engineering & Polytechnic, Satara

Subject: Providing Sponsorship to your students for Project

'PNEUMATIC BAR CUTTING MACHINE'

Respected Sir,

We are manufacture custom built project, special purpose machine, our company is situated in Satara (kondave), in our company four employ is working as a team work.

We are the designers and suppliers of the Special Purpose Machines & Equipment's. We are now designing the different mechanisms & system which are innovative & useful for our industrial fields.

The below mentioned students are requesting to work on that project. We are giving preliminary permission to them on the organizational terms and conditions. The students will be provided all the relevant data as well as the expenses related to the project manufacturing only. Other expense regarding their accommodation is not the responsibility of the organization.

This is for your information only.

Thanking you.

Names of the students:

- I. Mr. BIRJE CHARUDATTA VILAS
- 2. Mr. GAIKWAD SUSHANT SHIVAJI
- Mr. SALUNKHE ABHIJEET SAHEBRAO
- Mr. SHELAKE SAGAR DILIP

For Gholap Engineering
Proprietor

Your faithfully,



Indian Bio-Diesel Corporation, Baramati

12/10/20/4

والجواه

TO The Principal K.B.P.C.O.E. SATARA

DATE: - 30/04/2014

SUBJECT: - PROJECT COMPLETION CERTIFICATE

This to certify that, as per university syllabus the following students of B.F. (Mechanical), K.B.P. College of Engg., Satara are doing project for academic year 2013-14 with us.

Project - "Performance And Testing Of CI Engine By Using Biodiesel (WVO, Chicken fat oil) And It's Blends".

1. Mr. Khade Prashant Vijay	(Roll no - 033)
2. Mr. Mane Dhiraj Dhananjay	(Roll no - 039)
3. Mr. Patil Vishal Hari	(Roll no - 050)
4 Mr. Pujan Pankaj Ramesh	(Rol. no055)

This is to certify that the project, they are going to perform is sponsored by our company & all the students have successfully completed the project work under the guidance of Prof. M.Y. Shinde madam and Ms. S. B. Chavan madam (IBDC, Bmt).

المالي لمبداد

Date: - 01/10/13

O/W: - 1933/2013

CERTIFICATE

This is certify that following students from B.E Mechanical of Karmaveer Bhaurao Patil College of Engineering & Polytechnic, Satura, have associated with us for their project in academic year 2013-14. During this period they should complete the training program of trial & testing of Biofuel with us.

Mr. Khade Prashant

Mr. Pujari Pankaj

Mr. Patil Vishal

Mr. Dhiraj Mane

For, INDIAN BIODIESEL CORPORATION

Mitablerele_

(CEO)

(Project Co-Coordinator)

- Above Sh. Malojiraje co.op bank, Bhigwan Chowk, Baramati, Dist-Pune, Tal-Baramati, Pin-2112-221382, mo- 09225540384. Email- ibdc.bmt@gmail.com

Rajlaxmi Mechanical Engineering Industries

N-38, Addl. M.I.D.C., SATARA - 415 004. (Maharashtra) Cell: 9422038424 e-mail:hogring1@gmail.com web:www.staplepin.in / www.hogring.in MANUFACTURERS OF ALL SIZE OF OFFICE & INDUSTRIAL STAPLE PINS

Ref. No.:

Date:

To

Date 28.5.13

The Principle KBP C.O.E.P SATARA

Subject: Sponcership Letter

With reference to the letter of your college about the project to a sponsered the project of " Design and Manufacturing of C. Ring [Hog Ring] Machine" as per our need. The students in solved in the project are -

Students Name :	Roll	Ho.
1) Mr. Patil Abnijit Avinash		46
21 Mr. Sutar Chaker Annappe	8	27
3) Mr. Shende Vikram Popatreo		80
4) Mr. Suryawanshi Rohil Raghunath		.66

with Warm Regard.

For Railaxmi Mechanical Engineering Industries

uring Industries Meditanical

Rajlaxmi Mechanical Engineering Industries

N-38, Addl. M.I.D.C., SATARA - 415 004. (Maharashtra) Cell : 9422038424 e-mail:hogring1@gmail.com web:www.staplepin.in / www.hogring.in MANUFACTURERS OF ALL SIZE OF OFFICE & INDUSTRIAL STAPLE PINS

Ref. No.:

Date:

7.

Date 30 4 14

THE SHALL SA HEF CLEP SUTAFA

Subject - Project Completion Certificate

This is to certify that as per University Sullabus, the following students of S.E.Mech. INBP College of Engineering Salara, are doing project for academic year 2013-14 with us.

Project - " Design and Manufacturing of C- Ring [Hog Ring] Machine"

Students Name :	Roll	No.
	E KANG	
11 1/1 Paul Abhijit Alemash	1	45
21 Mr. Sutar Chaker Annappa		67
3) IA: Shende Vikram Papatrao		69
4) Mr. Suryewenshi Rohit Reghuneth		56

This is to certify that the project, they are going to perform is sponsored by our company and all the students have successfully completed the project work under the guidence of the Gharge D. A. and the Jadha / Vijay J. Rajlasmi Mech. Engg. Ind. J.

With Warm Repard.

For Raljaxmi Mechanical Engineering Industries

Proprietor

Mechanical Engineering Industries

RAJLAXMI

Proprietor

6.2 Cost Estimation

Sr. No.	Part name	Qty.	Material	Cost(Rs)
1.	Slider	03	EN8	6000=00
2.	Slider Plate	03	OHNS	7500=00
3.	Wire Feeding Mechanism	02	MS	1000=00
4.	Main Plate	01	MS	2500=00
5.	Nut for Wire Feeding	14	EN8	1120=00
6.	Timer	01	EN8	350=00
7.	Slider Side Plate	12	EN8	1200=00
8.	Pulley	01	MS	850=00
9.	Motor Pulley	01	MS	400=00
10.	Spring	10	High Carbon Steel	650=00
11.	Nut & Bolt	55	MS	600=00
12.	Slider Arm	02	MS	1120=00
13.	Stand	01	MS	3600=00
14.	Tool	03	HSS	450=00
15.	Bevel Gear	02	Cast Iron	1913=00
16.	Shaft	01	EN8	1200=00
	Bearing	14	Stainless Steel	840=00
17.	Belt	01	Rubber	300=00
18.	Cam	04	OHNS	4500=00 2500=00
19.	Motor	01		2500=00
20.	Die	01	WPS	
21.	Total Cost		41067=0)0

6.3 Cost Of Machining

		Cost (Rs.)
Sr. No.	Machine Name Machine Frame	950 =00
1	Welding And Drilling Shaft Machining And	850 =00
2	Grinding Milling Operations On	200 =00
3	Shaft Pulleys Internal	450 =00
4	Grinding Electrical Wiring	500 =00
	Electrical Williams	2950=00

tal Machining Table no 22

K.B.P. College of Engg. and Poly., Satara

Mechanical Engg. Dept.

75

6.3 Labour & Miscellaneous Cost:

Total Co	st	32000=00
2	Miscellaneous	7000 =00
1	Labour Charges	25000 =00

Table no23

6.4 Cost of Standard Parts

Sr. No.	Part name	Qty.	Material	Cost(Rs)
1	Nut & Bolt	25	MS	450=00
2	Bevel Gear	02	En8	3000=00
3	Pulley	01	MS	1500=00
4	Key	01	MS	100=00
5	Motor	01	-	2500=00
- 6	V-Belt	01	Rubber	300=00
7	Bearing	21	Stainless Steel	1200=00
8	Spring	10	High Carbon Steel	650=00
	Die	01	WPS	2474=00
9	Die		TOTAL	12174=00

Table no 24

6.5 Cost of project

Total Cost = Cost of components and material + Cost of Machining +

Labour & Miscellaneous Cost

$$=41067 + 2950 + 32000$$

Total Cost = Rs 76017=00

6.6 Comparing with market value of machine

Market value of machine:

120000=00

Actual Manufacturing Cost:

76017=00

Benefit to Comapany:

43983=00

Production Ex

DHICH TOURS

Address

SLU W-37, Addl M.LD C. Satara- 415 004

August 2013

143

Principal

K.B.P. College Of Engineering & Polytechnic,

Satara.

Ref: Your letter ref. CEPS Prod/2013 Dated 24th June 2013

Sub: Permission for BE(Production Engineering) Students for industrial Project

Dear sir.

We are pleased to informed you that following students of your institute has been allowed to do Industrial Project to us.

- Ahire Nikhil Ravindra 1
- Kayade Amol Bhikaji
- Rambade Santosh Suresh
- Rupnar Sagar Shivaji

The project period is from 14th July 2013 to 30th april 2014

Kindly advice the students to strictly observe discipline, rules and regulations of the company, and give full co-operation to the company guide, Mr. R.G. Malwade.

It is expected that students will keep confidentially of the information gathered during this project. On completion of the project, student is advised to submit the draft of project report to the company guide. On his approval they may take final prints of the report for submission. A copy of his final report with approval from the company guide should be submitted to the undersigned at me. On receiving the project report as said above, I will issue project completion certificate to the student.

We are sure the project would be useful to student in providing an exposure to practical Knowledge of technological development in the industry

Tanking you, Yours faithfully.

Kind do

(R.G. Malwade)

EMERSON

Emerson Climate Technologie Undia) Limited

Registered Head Office:

7 age - 1 miggers 1 1 mag : 1 7 age - 1 miggers 1 1 mag : 1 7 - 9 (20:4200.200) 1 - 2 (20:4200.200)

HRD/FY13

To
Principal
K B P College Of Engineering & Polytechnic Satara

Ref. Your letter ref. CEPS/Prod /2013 Dated 24th June 2013

Sub Permission For BE (Production Engineering) Students for Industrial Project

Dear Sir.

Ne are pleased to inform you that following students of your institute has been allowed to do industrial Project at Atit.

Ashish Ankush Yadav

2. Rushikesh Laxman Thorat

3 Sagar Balvant Gore

The project period is from 14th July 2013 to 30th April 2014

Kindly advice the students to strictly observe discipline, rules and regulations of the company, and give full co-operation to the company guide, Mr. Shrikant Kulkarni, Sr. Engineer, Machine Shop (Production Dept.)

It is expected that students will keep confidentiality of the information gathered during this Project. On completion of the project, student is advised to submit the draft of project report to the company guide. On his approval they may take final prints of the report for submission.

A copy of this final report with approval (signature and remark on first page) from the company guide should be submitted to the undersigned at HR. On receiving the project report as said above. HR would issue project completion certificate to the student.

We are sure the project would be useful to student in providing an exposure to practical knowledge of technological development in the Industry.

Thanking you.

Yours faithfully.

for Emerson Climate Technologies (India) Limited,

Sandeer Kulkarni

Section Manager, Learning & Development

Human Resource.

DRACLE PRESSCOMPS & ENGINEERING PYT. LTD.

July 17, 2013

The Principal,

70 1-13" ± 50 Complete the control of the control

K.B.P.College of Engineering & Polytechnic

Ref. Your letter No. /Prod/Self. Sub: Sponsorship of Project...

Sir.

A Batch of following 4 students of your final year production engineering is acceptable to us for the completion of Projects we have in mind viz. Design and Manufacturing Of Clutch and Brake mechanism for Double Action Power

Mr. Patil Swapnil Shahaji

Mr. Patil Ajitkumar Daragonda

Mr. Karandikar Sarvesh Girish

Mr. Gumaste Jayesh Sanjay

During Project period the students have to follow following rules & regulations & safety instructions.

Student should wear apron over normal dress.

Student should wear shoes. No any kind of chappal will be permitted.

Working hours 8.30 to 5.00 pm.

4. The students can't only be observers, but will have to work wherever they have been asked to.

They won't be paid any stipend/ Salary.

6. The company won't be responsible for any injury caused during the project period.

Traveling to attend duties is total responsibility of parents.

8. Student must punch card for attendance & exit.

Please appoint guiding Professor to guide these students right from the selection to Product & Presentation of the project to you for examination.

The entire cost incurred for this project will be borne by our company including machining or purchasing involved. However, Students have to bear all expenses meant for the necessary attendance while executing the project since inception. We agree to make available this project to the college for the purpose of oral of the students as & when required by college.

We shall Co-operate in a best manner & means available at our disposal.

Yours Faithfully,

Ful Oraclo Presscemps & Frigg P Ltd.

Y B. Pawar.

Director.

RAJAS ENGINEERING

2 ACCITIONAL M.I.D.O., SATARA - 416 004. (2 1/02162) 2406 96-2406 99

18.3

To.

22/08/2013

The Principal,

K.B.P. College of Engineering and Polytechnic.

Satara

Project Guide: - Shaikh.A.M.

Subject:- Sponsorship of project.

Respected Sir,

A batch of following 4 students of your final year Production Engineering is accepted to us for completion of the project we are in need of viz, Mechanically operated Scissor Lifter.

Mr .Bagal. Abhijeet. Chandrakant.

Mr. Deshpande. Vinayak. Prakash.

Mr. Kulkarni. Sourabh. Dhruvraj.

Mr. Solankurkar, Vinit, Chandrakant,

During Project period the students have to follow following rules and regulations and safety instructions.

- 1) Students should wear apron over the normal dress.
- 2) Students should wear shoes.
- The students can't be only observers. The have to be get working with whatever they have been asked to.
- 4) Travelling to attend duties is totally their parent's responsibility.

The entire cost incurred for this project will be borne by the company including machining and purchasing involved. We agree to make available this Project to the college for the purpose of orals of the students as and when required by the college.

We shall co-operate in the best possible manner and means available at our disposal

Yours Faithfully,

For RAJAS ENGINEERING PVT.LTD.

RAJENDRA.H. SHINDE.

Partner.



Manufacturer of All Kinds of Strip & Coil Springs, Automobiles & Engineering Springs

Factory: Plot No N-30.Add.MIDC Area. Kodoli. SATARA-415 004

OFFICE: Digha Co-op. Industrial premises Society. Plot No 50.Behind Shivaji Floor Mill. Diva Nakai Navi Mumbai 400 708. Tel Fax. (022) 27604432

To,

The Head Of Department

Production Engineering,

K.B.P. Satara.

Respected Sir,

I the undersigned Mr. S.N. Bhosale is the director of Shivdarshan Industries a leading provider of enterprises-class products and services based on various categories like SPM.

We have undergone the overview of the project of your students & we are ready to provide guidance for the project & hereby approving the sponsorship for project of the students enlisted below:

- Bahir Ashok N.
- II. Ghatole Pankaj H.
- III. Jadhav Prashant S.
- IV. Nikam Vaibhav V.

Under Internal guidance of Prof. Sabnis V.B.

N.Elusale

Authorized Signatory

ABHIJAT EQUIPMENTS PVT. LTD.

Regd Off. & Works 19/4, Molacha Odha, Satara - 415 002, Maharashtra (India) Ph.No. (02162) 250196, 251091, 252511 Fax (02162) 250596 E.mail. aeplm@sancharnet in Website. www.abhijatequipments.com

REF NO. AEPL- 2013-14 DATE -24.08.2013

TO. K B P College of Engineering, <u>SATARA</u>.

Sub: - 'Sponsored Industrial Project Work' for final year (B.E) students.

Dear Sir.

We 'Abhijat Equipments Pvt Ltd' herewith confirm that, our organization would cooperate following four final year student from your college to our organization for a industrial project at our works.

Group -1

- 1) Bhosale Vilas Sahebrao
- 2) Gawade Prakash Sominath.
- Kenjale Mayur Shamrao.
- 4) More Omkar Balasaheb

We had informed the students about our requirement.

Company will pay for all the expenses. Also, we would provide them material & machines to complete the project.

With Best Regards.

Yours Faithfully For, Abhijat Equipments Pvt. Ltd

Authorized Signatory.

MANISH INDUSTRIES

Works: Sr.No.15/1/1, Gujarwadi Road, Mangadewadi, Tal- Haveli, Dist: - Pune. Mob: - 9890994245. E-mail ID - manishind96@gmail.com

Ref. No.

Date :- 28.03.2014

CERTIFICATE

(TO WHOM SO IT MAY CONCERN)

This is to certify that, the following students Karmaveer Bhaurao Patil College of Engineering, Satara studying in B.E. (Production)

- 1) MR. Patankar Aniket Arvind
- 2) MR. Sutar Omkar Vitthal
- 3) MR. Mokal Akshay Suresh
- 4) MR. Kudale Deepak Prakash

Have successfully completed the project entitled :-

" Multipurpose pneumatic punching machine "

uring project work in our company we found all of them to be sincere, have always shown deep enthusiasm and keen interest in studying and completing this project successfully and in time.

We wish every success during his future endeavor.

For MANISH INDUSTRIES

MR. NITIN J.KANUNJE

(PROPRITER)

A Abhijat Engira

CERTIFICATE

to whomsoever it may concern.

Date- 30/4/2014

This is to certify that following students of Karmaveer Bhaurao Patil College of Engineering, Satara studying in B.F. (Production Engineering)

- 1 Chorge Amit Smil
- Chorpade Ketan Vitthal
- 3. Ghorpade Sushil Shivaji
- 4. Jadhay Subas Laxman

Have successfully completed the project entitled:

" Automated Pneumatic Banjo Bolt Marking Machine"

During project work we found them hardworking and sincere. Also they have shown keen interest in studying.

Best wishes for there future

For.

ABHIJAT ENGINEERS

Mr. Sunil Marathe (Plant Manager)

ABHIJAT ENGINEERS
Plot No.32, Municipal Industrial Estaio.
Karanje,SATARA-415 002 (M.S.)
Phone: + 91 2162 250446



I" Prize Winner for District's Best Industrial Award for Year 2007.



ABHIJAT EQUIPMENTS PVT. LTD.

Regd. Off. & Vecks 19/4 Molacha Odha Satara - 415 002 Maharashtra (India) Direct No. 9091 2162-250991 Board 0001 2162-250196-250091

Cell : 0091-9850120600 Fax: 0091-2162-250596

E.mail sales@abhijatequipments.com Website www.abhijatequipments.com

REF.NO. AEP1.- 2013-14 DATE -24.08.2013

TO, K.B.P College of Engineering, SATARA.

Sub: - 'Sponsored Industrial Project Work' for final year (B.E) students.

Dear Sir.

We Abhijat Equipments Pvt Ltd' herewith confirm that, our organization would cooperate following four final year student from your college to our organization for a industrial project at our works.

Group -2

- 1) Kate Sanket Sanjay
- 2) Kadam Nikhil Namdeo
- 3) Kawale Shriganesh Suryakant
- 4) Pawar Suraj Sunil

We had informed the students about our requirement.

Company will pay for all the expenses. Also, we would provide them material & machines to complete the project.

With Best Regards.

Yours Faithfully For, Abhijat Equipments Pvt. Ltd