

**G. S. Mandal's Maharashtra Institute of Technology, Aurangabad**  
**Project List for GIZ-MASSIA Student Project Initiative 2017-18**

Sr. No.	Name of SMEs	Project Code	Project Name	Problem Description	Desired Outcomes	Coordinator Name	Mobile No.	Address	Name of Students undertaking the project	Faculty Coordinator
1	Sheet Shapers	IP-1	1. Auto Inspection of threads	In the sheet metal pressed parts produced by company, dimensions and presence of thread to be checked through visual inspection and there are chances that some of the components without threads also passed on through visual inspection and this creates problem in assembly.	An auto inspection mechanism needs to be developed which will check dimensions of thread as well as presence of threads.	Mr. Deepak B. Ahire	9890280999	K-134, MIDC Waluj, Aurangabad	Pawan D. Shelke	Mr. Sanjay Gadkari
									Shubham S. Loya	
									Syed Abdurraheem Mushtaba	
	Sheet Shapers	IP-2	2. Logistics cost reduction	Logistics cost is one of the important cost in the entire project cost. This is non value adding cost and it is expensive component in entire supply chain.	Reduction of logistics cost will reduce the overall project cost.	Mr. Deepak B. Ahire	9890280999	K-134, MIDC Waluj, Aurangabad	Chinmai Mohan Deshmukh	Mr. A. G. Mapari
									Sudarshan Ramkrushan Jadhav	
									Sandeep Pralhad Kudale	
Sheet Shapers	IP-3	3. Lean Cluster Projects	There are lot of wastes in the manufacturing system. This will have effect on the overall efficiency and effectiveness of the manufacturing system.	To identify and eliminate waste and streamline a manufacturing system.	Mr. Deepak B. Ahire	9890280999	K-134, MIDC Waluj, Aurangabad	Gunde Somnath V.	Prof. S. V. Lomte	
								Sagar B. Thote		
								Atharva Suhas Pande		
2	Shubham Industries	IP-4	1. Tool Life improvement	Tools used for one of the tube cutting operation is need to be replaced frequently.	The tool life will be improved through giving the cryogenic treatment to the tool.	Mr. Atul Bhandari	9960100941	K-110, MIDC Waluj, Aurangabad	Somavanshi Om Anurath	Prof. S. V. Lomte
									Jaiswal Akshay Maniklal	
									Pooja Rajnath Vishwakarma	
	Shubham Industries	IP-6	2. Software on Inventory and Manpower Optimization	Amount of manpower required for different manufacturing processes is a challenging task. As the amount of inventory is huge, management of it very difficult. Due to non proper management there are chances of unavailability of items whenever required.	A software for optimization of manpower and inventory will be developed which will help to reduce the manpower and inventory for different manufacturing operations.	Mr. Atul Bhandari	9960100941	K-110, MIDC Waluj, Aurangabad	Mahesh P. Deshpande	Dr. P. M. Ambad
									Chaudhari Altaf A. Razzaque	
									Vedashree Sudhir Bargaonkar	

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3	Avinash Engineering	IP-7	1. Reduction in rejection level	Auto components produced on CNC Turning machine. The number of defective components produced are relatively more in numbers and goes very high in historical inspection data recorded for several months.	The number of defectives to be reduced to a certain level.	Mr. Avinash Shahade	9552557996	F37 MIDC Waluj, Aurangabad	Nidhe Prasad Prakash	Mr. T. P. Kulkarni
									Pagire Kedar Kalyan	
		Akkash Keche								
		IP-8	2. Reducing the manpower on CNC	Auto components are produced on CNC turning machine. The cycle time for each component is about 30 second which involves loading, turning and unloading of job. Each CNC machine requires one operator.	One operator will be handle more than one machine so that the total manpower requirement will get reduced.				Varade Ashwini Raghavendra	Dr. P. M. Ambad
Ameya Ajit Mande										
Amol J. Patil										
4	Elegant Coating	IP-9	1. Second cut automation line set-up	After cutting the components in rectangular shapes from the sheet rolls in the first cut, again second cut operation is done. It is observed that when the component passes for operation through conveyer belt, tilting of component may occur due to back pressure and cutting does not take place as per dimension required and due to which component gets rejected.	An automation line set-up will be installed which will take care of the proper feeding of the component for the second cut operation.	Mr. Vinod Diwan	9011047270	E-37, MIDC Waluj, Aurangabad	Mahesh K. Deshmukh	Mr. S. B. Charthankar
									Patil Patik Vishwas	
									Varad Vijay Patki	
		IP-10	2. Auto clinching line	--	Auto clinching line setup will be developed.				Rajakrishana Manikalal Supekar	Mr. P. J. Palkar
									Arvind Kale	
		IP-11	3. Leak testing water temperature using furnace trolley heat	One of the components used in refrigeration is heat treated in a furnace. Components is passed on through furnace. Kept there for some time for tempering and then removed from furnace once the cycle is over. Large amount of heat generated in furnace will get wasted.	Amount of heat which get wasted in furnace will be transferred through channel for heating water required at leak testing station. This will save electrical power requires to heat the water for leak testing.				Bidarkar Kiran Raju	Dr. Kishor Kulkarni
									Laxmikant Raskar	
Shubham Sukhdeo Sapkal										

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	Elegant Coating	IP-12	4. Assembly Line Balancing			Mr. Vinod Diwan		E-37, MIDC Waluj, Aurangabad	Amol Sanjay Patil	Mr. Siraj Sayyed
									Prashant P. Patil	
		Abhishek R. Domkavale								
		IP-13	5. Solar panel cleaning	when the solar panels are installed on the open terrace, with time, dust will start to settle on them, blocking sunlight which will reduce their efficiency.	A auto cleaning mechanism will be developed which will clean the panel with minimum amount of efforts.				Sachin Kangane	Mr. R. L. Gaike/ Mr. Pravin Lad
Sarang Pramod Naik										
Kaustubh Radhakrishna Puranik										
5	Sanjay Technoplast Private Limited	IP-14	1. Development of high strength composite for side mirror assembly (Metal to plastic conversion)	Traditional Automotive parts as a accessory can be manufactured in plastic composite materials for cost efficient production and high rate of manufacturing	Plastic Composite Material is being developed under the composite expertise which serve the applicatin of traditional part	Mr. Prasad Kokil	9158898076	MIDC Waluj, Aurangabad	Dipak Shinde, Pragati Vaidya	Mr. V.R. Chaudhari
6	Jijai Industries	IP-15	1. Polishing finish of Core Pin	Core pin is used in aluminum die casting of components. There is problem of removal of core pin after the casting operation is over and components and core pin needs to be removed.	Proper polishing methodology adaption is needed for overcoming the problem of core pin after the casting operation.	Mr. Arjun Gaikwad	9822598341	C-252/2B-P-23, MIDC Waluj, Aurangabad	Rajendra Ramakant Gadekar Dattatray Gundu Muley Shaikh Mudassir Azeez	Prof. S. V. Lomte

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7	Sangram Auto Components Pvt. Ltd	IP-16	1. Improving the Tool Life and reducing the burr on the holes of back plate	Piercing die and punches are used for carrying out piercing operation on back plate and it is observed that there is burr formation on holes of back plate after certain number of operations and it will increase with number of components pierced. The punch needs to be resharpener after certain number of operations and still the problem of burr formation exists.	The tool life will be improved and the burr formation will be get reduced after treating the punches.	Mr. Narendra Deshmukh	9689941757	W-39, MIDC Waluj, Aurangabad - 431136	Sanmatikumar Subhashrao Waykos	Dr. P. M. Ambad
									Akshay Ramesh Biradar	
									Shubhada Deepak Raut	
		IP-17	2. Crack detection in Back Plate	The forming operation for back plate is carried out in 4-5 stations. At any one of these stations suddenly crack is developed and that will leads to rejection of the component.	A low cost automation equipment will be developed in order to detect the crack as soon as it will occur.				Shraddha Chute	Mr. Pramod Ambhore
									Avinash Abasaheb Nawpute	
									Ankit Vairagade	
IP-18	3. Automated Inspection for Back Plate	At the end of all operations back up needs to be visually inspected at number of points. Due to fatigue, after certain number of components, there may be possibility of defective components will get passed through visual inspection which will create problem at the time of assembly.	An automation device will be developed which will inspect the number of points so that no defective component should get passed on.	Gayatri Badwe	Mr. B. D. Gurav					
				Shubham Suresh Jagtap						
				Shivhari Gyanba Gaikwad						
8	Kabra Industries Pvt. Ltd.	IP-19	Development of Bio-degradable material for 3D-Printing Technology	Concern Industry want to develop 3D printing pen with its suitsble material	Departmental Team started work already by going through available technologies, first material will be modified and the we will work n design of pen	Mr. Kamal Kabra	9158898076	C-32,33, MIDC,Waluj, Aurangabad - 431136	Ganesh Jadhav, Raj Gadge Sayyed Salman Zafar	Mr. V.R.Chaudhari

Dr. Prashant M. Ambad  
Institute Coordinator