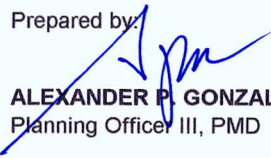


Department of Science and Technology
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
LIST OF ONGOING DISAGGRIGATED GIA PROJECTS FOR 2017

Item No.	Title	Duration	Project Objectives	Beneficiaries	Implementing Division	Amount (PhP)	Status of Implementation (as of June 30, 2016)
I. FACILITY UPGRADING (SURFACE ENGINEERING)							
1	Establishment of a Gear Making Assembly Facility	July 1, 2014 to June 30, 2016 Extension 1: July 1, 2016 to June 30, 2017 Extension 2: June 30, 2017 to Dec. 31, 2017	Establish gear design and production facility for the development of different types of gears for agro-industrial and transportation applications.	Metals and Engineering Industry, Transportation Sector	Prototyping Division	105,160,000.00	AGD Infotech Inc. conducted the pull-out of the delivered precision aircon system. Lunching of the Gear Making and Assembly Facility during the 2017 M&E Week. Ongoing fabrication of research and development projects. Conducted the mastercam multi-axis training.
II. ADVANCED TRANSPORTATION SYSTEMS (TRAINSET)							
2	Performance Testing and Evaluation of Prototype Trainset	Jan. 1, 2017 to Dec. 31, 2017	The project aims to test and evaluate the developed Prototype Train Set prior to commercialization.	Philippine National Railways, Transport Sector, Public	Materials and Process Research Division	20,000,000.00	Conducted performance testing of Hybrid Electric Train at Sta. Rosa Station: - Braking distance test (no load) - Speed test (no load) - Acceleration test (no load)
III. OTHERS							
3	Establishment and Strengthening of Information and Communication Technology (ICT) Infrastructure (ICT INFRA) and Business Online Solution System (BOSS) of the Center in Support to the Productivity and Competitiveness of the M&E Industries	Jan. 1, 2017 to Dec. 31, 2017	The project aims to address concerns related to ICT infrastructure and information systems requirements of the Center.	Metals and Engineering Industry	Planning and Management Division	2,000,000.00	Acquisition of Firewall to safeguard MIRDC network from hacking and network viruses. Strengthens internet bandwidth of MIRDC Acquisition of seven (7) units access point (AP) that provides free internet connection to MIRDC clients/customers 7 APs were strategically installed in the following: Gold Bldg. - 3rd Flr. Hallway, Boardroom, Lobby Platinum Bldg. - Lobby, Platinum Auditorium Copper Bldg. - Lobby Steel Bldg. - Lobby

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Department of Science and Technology
METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER
LIST OF ONGOING GIA PROJECTS FOR 2017

Item No.	Title	Duration	Project Objectives	Beneficiaries	Implementing Division	Amount (PhP)	Status of Implementation (as of June 30, 2016)
I. MACHINE BUILDING (INDUSTRIAL / SPECIAL PURPOSE EQUIPMENT)							
1	Development of 12-Hp Single Cylinder Diesel Engine	Jan 1 2014 to Dec 31 2015 Extension 1: Jan 1 2016 to Dec 31 2016 Extension 2: Jan 1 2017 to June 30 2017	Design and develop a 12 hp single cylinder diesel engine for different applications	Metals and Engineering Industry	Prototyping Division	(2014-DGIA) 12,000,000.00 (2015-TL) 7,890,400.00 (TOTAL) 19,890,400.00	Performed field testing of prototype with different attached equipment (flat bed dryer, water pump, agricultural trailer) at Philmech.
II. MACHINE BUILDING (AGRICULTURAL EQUIPMENT)							
2	Development of a Fluidized Bed Dryer for Production of Stabilized Brown Rice (SBR)	Aug. 1, 2013 to Dec. 31, 2015 Extension 1: Jan 1, 2016 up to June 30, 2016 Extension 2: July 1, 2016 to Dec. 31, 2016 Extension 3: Jan 1, 2017 to June 30, 2017	Design and fabricate a prototype batch type fluidized bed dryer in the production of stabilized brown rice; design and fabricate a prototype continuous type fluidized bed dryer based on the prototype batch type fluidized bed dryer for higher capacity; evaluate the performance of the developed prototype batch and continuous type fluidized bed dryers.	Agricultural sector; M&E industry	Prototyping Division	(2013) 3,666,386.00 (2014) 3,723,888.00 (2015-TL) 1,395,442.00 (TOTAL) 8,785,716.00	Submitted request for project extension to PCAARRD. Completed TOR for the major parts of the continuous type FBD.

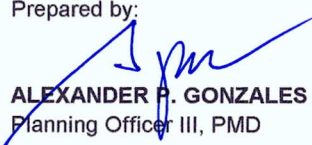
Item No.	Title	Duration	Project Objectives	Beneficiaries	Implementing Division	Amount (PhP)	Status of Implementation (as of June 30, 2016)
3	Piloting of the Hand Tractor - attached Harvester in Selected Rice Growing Regions	Dec. 16, 2014 to July 31, 2016 Extension 1: Aug 1, 2016 to Dec. 31, 2016 Extension 2: Jan 1, 2017 to June 30, 2017 Extension 3: June 30, 2017 to Dec. 31, 2017	Conduct field testing of three (3) harvester-attached hand tractor and three (3) transplanter-attached hand tractor prototypes in demo farms of various regions.	Agricultural sector; M&E industry	Prototyping Division	3,526,960.00	Exhibited Hand Tractor-Attached Transplanter and Hand Tractor-attached Harvester during the MIRDC M&E Week 2017.
4	Design and Development of Sugarcane Harvesting Equipment for Small-Scale Sugarcane Farm	Jan. 1, 2015 to Dec. 31, 2016 Extension 1: Jan 1, 2016 to June 30, 2017	Develop locally fabricated sugarcane harvesting equipment (cutter, stripper and loader) for small farms.	Agricultural sector; M&E industry	Prototyping Division	5,334,956.00	Ongoing modification on sugarcane cutter and stripper. Ongoing fabrication of spare-parts of the 3 machines. Ongoing preparation of terminal report and operations manual.
5	Pre-Commercialization Services of Rice Transplanter Attached (RTA) and Rice Harvester Attached (RHA) for Hand Tractor	June 1, 2017 to Nov 30, 2018	Support the commercialization of the RHA and RTA technologies through the conduct of pre-commercialization activities.	Agricultural Sector, Food Manufacturers, M&E Industry (Fabricators)	Prototyping Division	3,554,328.00	Project duration was adjusted from July 1, 2017 - Dec. 31, 2017 to June 1, 2017 - Nov 30, 2018.

Item No.	Title	Duration	Project Objectives	Beneficiaries	Implementing Division	Amount (Php)	Status of Implementation (as of June 30, 2016)
III. MACHINE BUILDING (FOOD PROCESSING)							
6	Roll-out of DOST Developed Food Processing Equipment to the Regions	Oct. 1 2013 to Dec 31 2014 Extension 1: Jan 1 2015 to Jun 30 2015 Extension 2: Jul 1 2015 to Dec 31 2015 extension 3: Jan 1 2016 to Dec 31 2016 Extension 4: Jan.1 2017 to Dec. 31 2017	Roll-out the DOST-developed food processing for product quality and productivity improvement of food processors in the regions.	Metals and Engineering Industry, Food Processors in the regions (Manufacturers)	Prototyping Division	(2013 SET UP) 15,299,000.00 (2013 ADDT'L FUND) 7,384,500.00 860,610.00 28,486,548.00 (TOTAL) 52,030,658.00	WATER RETORT: 16 units deployed, 2 units ready for deployment. VACUUM FRYER: 2 units ready for deployment, 16 units deployed. SPRAY DRYER: Batch 1 - 9 units deployed; Batch 2 - 9 units on hold for termination. FREEZE DRYER: 9 units for fabrication, 3 units under FT, 6 units deployed. VACUUM PACKAGING MACHINE: 18 units deployed. Overall: 65 deployed units out of 90 units for 18 Food Innovation Centers (FIC).
7	Establishment of Complementary Baby Food Production Plant	Jan 1 2013 to Jun 30 2014 Extension: Up to June 30, 2017	Encourage local government units (LGUs) to adopt and implement DOSTs technological innovations and improvements in support of the LGUs programs to enhance the quality of life and well-being of the LGU's constituents.	Agricultural Sector, Food Manufacturers, M&E Industry (Fabricators)	Prototyping Division	435,375.00	Awaiting installation of electric power source from Meralco (c/o Valpoly/LGU) 70% utilization of additional fund from DOST-NCR. Training deferred due to unavailability of electric power.
IV. FACILITY UPGRADING (SURFACE ENGINEERING)							
8	Establishment of a Gear Making Assembly Facility	July 1, 2014 to June 30, 2016 Extension 1: July 1, 2016 to June 30, 2017 Extension 2: June 30, 2017 to Dec. 31, 2017	Establish gear design and production facility for the development of different types of gears for agro-industrial and transportation applications.	Metals and Engineering Industry, Transportation Sector	Prototyping Division	(2014) 72,190,126.00 (2015) 120,296,809.60 (TOTAL) 120,296,809.60	AGD Infotech Inc. conducted the pull-out of the delivered precision aircon system. Lunching of the Gear Making and Assembly Facility during the 2017 M&E Week. Ongoing fabrication of research and development projects. Conducted the mastercam multi-axis training.

Item No.	Title	Duration	Project Objectives	Beneficiaries	Implementing Division	Amount (Php)	Status of Implementation (as of June 30, 2016)
V. ADVANCED TRANSPORTATION SYSTEMS (HYBRID ELECTRIC ROAD TRAIN)							
9	Technology Promotion and Field Testing of the Hybrid Electric Road Train in Cebu City	July 1, 2016 to June 30, 2017	Promote and field test the Hybrid Electric Road Train as a mass transport system by deploying it at the Local Government Unit in Metro Cebu. It will serve as an instrument in their socio-economic development by the establishment of an efficient, fast, convenient to use, safe, all Filipino-made and environment friendly transport technology.	Metals and Engineering Industry (M&E), Transportation Sector, Public	Analysis and Testing Division	2,484,000.00	Repair of auxiliary motors and framework completed. Transfer of parking area under negotiation between DOST-7 and Cebu City Local Government. Ongoing preparation of terminal report. DOST-7 will shoulder the security expenses while the transfer of CRT to General Santos City is being arranged.
10	Modification of Road Train Energy Storage System Using Lithium Ion Batteries	March 1, 2017 to Oct 31, 2017	This project aims to modify the energy storage system of the Road Train to improve their acceleration, safety, energy recovery and power sharing capabilities, and mobility.	Metals and Engineering Industry (M&E), Transportation Sector, Public	Analysis and Testing Division	4,678,300.00	Fabrication of mounting frame (30% completed) and disassembly of LCRT batteries (40% completed) were stopped due to project suspension issued by PCIEERD. PCIEERD conducted project evaluation/monitoring on June 28, 2017. Project is under further evaluation of PCIEERD for consideration in lifting the suspension.
VI. CAPABILITY BUILDING (TRAINING AND CONSULTANCY)							
11	Supporting Philippine Companies in the Preparation and Implementation of an Aerospace Quality Management System (AQMS) aligned with AS9100 Requirements	November 1, 2016 to October 31, 2017	The project aims to enhance the competitiveness of the Philippine aerospace sector by supporting selected companies in the preparation and implementation of an aerospace quality management system (AQMS) leading to AS9100 certification.	Aerospace Industry, Metals and Engineering Industry	Planning and Management Division / Technology Diffusion Division	8,400,000.00	Two batches of Risk Management Training conducted last May 29 to June 1, 2017 at MIRDC. Coordinated pre-bid conference for consultancy activities. Opening bid schedule will be on July 10, 2017.

Item No.	Title	Duration	Project Objectives	Beneficiaries	Implementing Division	Amount (PhP)	Status of Implementation (as of June 30, 2016)
VII. OTHERS							
12	Design and Optimization of Austenitic Manganese Steel Liners for Philippine Aggregates and Mineral Processing	June 1, 2016 to May 31, 2018	Design and optimize performance and value of austenitic manganese steel crusher liners; Demonstrate the capability through actual testing and evaluation of the developed liners; Promote the capability to beneficiary industries such as the aggregate, mining and metal casting industry.	Metals and Engineering Industry	Materials and Process Research Division	2,662,076.00	Completed training on bottom pour ladle (BPL) use and maintenance in Taiwan. Completed the design of liners and was already approved by ETAC. Purchase order for the casting of first trial has been awarded to Tiger Machinery and Industries Corp. Designs for 2 types of lifting tools are already completed and submitted to ETAC and approved. Sample quotation was submitted and already awaiting fabrication c/o ETAC
13	Technical and Economic Feasibility Study to Determine the Most Suitable Ironmaking Technology for the Value Adding of Philippine Magnetite Resources (PCIEERD)	Jan. 1, 2017 to Jun. 30, 2018	To provide technological solutions to obtain maximum benefit from the value adding of iron resources in the Philippines particularly for the integration of the iron and steel industry.	Metals and Engineering Industry	Materials and Process Research Division	4,750,000.00	Finalized the Terms-of-Reference for the three (3) processes namely Midrex, Corex and Rotary Kiln-Electric Furnace Process. Ready to ship sample to Laboratories in Germany and Austria. Results will be released in three (3) months. Preparing Term-of-Reference (TOR) for the economic feasibility study.
14	Technical and Economic Feasibility Study to Determine the Most Suitable Ironmaking Technology for the Value Adding of Philippine Magnetite Resources (DTI-BOI)					4,750,000.00	
15	Enhancing ONELAB for Global Competitiveness - RDIs Component (MIRDC)	Jan. 1, 2017 to Dec. 31, 2017	Enable the network of laboratories (OneLab) to provide global access to comprehensive testing and calibration services at a single touch point.	Metals and Engineering Industry	Analysis and Testing Division	1,033,538.00	Awaiting upgrade of ULIMS to new version depending on the instruction of DOST-ITDI. Awaiting approval of request for re-alignment of LIB.

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