



Metals Industry Research and Development Center

CITIZEN'S CHARTER 2025 (1st Edition)

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METALS INDUSTRY RESEARCH AND DEVELOPMENT CENTER

To develop and expand the metals industry of the Philippines, Republic Act No. 4724, dated 18 June 1966, established the Metals Industry Development center (MIDC). The Center was primarily tasked to work for close rapport between the government and the industry in order to foster the advancement of metals, engineering and allied industries in the country.

This was amended by Republic Act No. 6428, dated 31 May 1972, reorganizing and renaming the MIDC into the Metals Industry Research and Development Center (MIRDC), giving it corporate existence and enlarging its powers. The administration of the Center and the exercise of its corporate authority were vested exclusively in a Board of Trustees organized under this Act.

Later presidential issuances reflected the Center's change of thrust and direction. These were Executive Order No. 602, transferring the MIRDC from the then National Science Development Board (now Department of Science and Technology) to the then Ministry of Trade & Industry (now Department of Trade & Industry) for policy and program coordination and direction; Presidential Decree No. 1765, reorienting its thrust from research and development to direct assistance to the metals industry; and Executive Order No. 128, transferring the Center from the Department of Trade & Industry to the Department of Science & Technology as a separate and attached agency.

Finally, Executive Order No. 494 dated 6 December 1991 transformed the MIRDC into a regular government agency attached to the Department of Science and Technology. This was fully implemented on 27 May 1993.



VISION

Center of excellence in science, technology and innovation supporting the growth of the metals, engineering and allied industries.

MISSION

To provide both government and private sectors in the metals, engineering, and allied industries with professional management and technical expertise on the training of engineers and technicians; information exchange; quality control and testing; research and development; technology transfer and commercialization; and business economics advisory services.



PERFORMANCE PLEDGE

We, the officials and employees of the Metals Industry Research and Development Center commit to serve you **BEST**:

BUILDING A REPUTABLE ORGANIZATION

We uphold honesty, decency, and transparency in all our transactions.
We commit to serve customers promptly, efficiently and reliably.

EXCELLENCE IN ALL WE DO

We empower employees to take responsible actions and deliver excellent performance.

We commit to continually improve organizational effectiveness through our quality and environmental management systems, comply with applicable statutory and regulatory requirements, and provide products and services with the highest standards of quality and reliability to meet customer satisfaction.

SERVICE BEFORE SELF

We put our professional duties to take precedence over personal desires and interests.

We commit to serve customers professionally, responsibly and competently and abide by the Center's rules and regulations and the code of conduct and ethical standards for public officials and employees being a productive and law abiding citizen and public servant.

TRUST AND RESPECT FOR EVERYONE

We value diversity and treat with justness and fairness every individual at work.

We commit to serve customers of any group, sector, status, gender, culture, or religion with utmost courtesy, vigor and enthusiasm.

All these we pledge, because **YOU** deserve the **BEST**!



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ANALYSIS AND TESTING DIVISION

External Services



I. In-House Testing Services

The following testing and analytical services are offered by the Center's Laboratories for the Metals, Engineering and Allied Industries in ensuring high quality of metal and metal products necessary for the continued competitiveness in both local and foreign markets.

A. Analytical Laboratories Section (ALS)

1. Analytical Laboratories Section - Corrosion Testing Services

Corrosion Laboratory provides the following services that can determine or assess the physical properties and corrosion resistance of various coatings for metals and its allied products.

- a. Complete Adhesion Tests of Dry-Film Organic Coatings on Metal Sheets
- b. Complete Physical Tests for Plain and Prepainted Galvanized Sheets
- c. Salt Spray Testing of Metals and Metal Products
- d. Thickness Determination of Dry-Film Organic Coatings on Metal Sheets
- e. Thickness Determination of Metallic Coatings on Various Base Metals
- f. Determination of Mass Coating (MC) per Unit Area for Plain/Prepainted G.I Sheets and G.I Wires

2. Analytical Laboratories Section - Physico-Chemical Testing Services

These services are offered by Physico-Chemical Laboratory to analyze and determine the elemental composition of Ferrous and Non-Ferrous based metal samples. The analysis can either be destructive or non-destructive.

- a. Chemical Analysis using Spark Optical Emission Spectrometer (OES)
- b. Computation on Carbon Equivalent (CE)
- c. Chemical Analysis using Wet and Instrumental Method
- d. Chemical Analysis using X-ray Fluorescence (XRF) Spectrometer

B. Physical Laboratories Section (PLS)

1. Physical Laboratories Section - Auto-Parts Testing Services

These services are offered by Auto-parts Testing Laboratory to evaluate, monitor and test different auto-parts samples for their compliance with the standard, quality, safety and research.

- a. Fatigue Test
- b. PUV Dimensional Measurement
- c. Tire Endurance Test
- d. Vibration Test



2. Physical Laboratories Section - Mechanical Metallurgy Testing Services

The Mechanical Metallurgy Laboratory offers the following destructive testing services to determine the mechanical properties of metallic samples:

- a. Tension Testing
- b. Test on Threaded Fasteners
- c. Complete Physical Tests of Equal Leg Angle Steel Bar
- d. Complete Physical Tests of Reinforcing Steel Bars
- e. Complete Physical Tests of Wires
- f. Hardness Test
- g. Test of Nails
- h. Test on LPG Cylinders for Requalification
- i. Test on New LPG Cylinders
- j. Breaking load/Proof load Test on Metallic Samples
- k. Hydrostatic Testing on Metallic Samples
- l. Tests on Welds

3. Physical Laboratories Section - Non-destructive Testing Services

The Non-destructive Laboratory offers the following testing of metal and metal products such as inspection of welds, shafting, load bearing parts in structural steel building, railways, airplane plants which are also used for product certification.

- a. Penetrant Testing
- b. Magnetic Particle Testing
- c. Radiographic Testing
- d. Ultrasonic Testing
- e. Ultrasonic Thickness Gauging

Office/Division:	Analysis and Testing Division	
Classification:	Highly Technical	
Type of Transaction:	G2C – Government to Citizen G2B – Government to Business Entity G2G – Government to Government	
Who may avail:	All	
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE
1. Submission of Samples for Testing		
1.1 Sample specimen, with complete details such as description/specification, or as required by the standard, test requirements, and payment (cash or dated company check).		Company/Industry requesting for testing



Non-destructive Testing Services

1.1.a For penetrant and Magnetic Particle Testing, Ultrasonic Thickness Gauging, samples should be prepared prior to testing. Paint should be strip or removed, there should be no foreign material such as oil, dirt, grit, weld spatter and slag, etc.

Physico-Chemical Testing Services

For Chemical Analysis using Spark Optical Emission Spectrometer (OES)

1.1.a Sample/s must have flat surface with minimum width/diameter of 16mm and thickness of 2 mm

For Chemical Analysis using Wet and Instrumental Method

1.1.a Sample/s with at least 50 grams metal sample weight in chips or compact form

1.1.b For Wires: 1 meter long

Corrosion Testing Services

For Complete Adhesion Tests of Dry-Film Organic Coatings on Metal Sheets

1.1.a One pc. with 1 ft. x width of the coil (W x L) dimension

For Complete Physical Tests for Plain and Prepainted Galvanized Sheets

1.1.a One (1) pc. with 1 ft. length x standard width of the coil dimension for Triple Spot or 1 pc. 1 ft. x 1 ft. (L x W) for Average Test

For Salt Spray Testing of Metals and Metal Products

1.1.a The sample must be not bigger than the salt spray chamber with 50" x 29" x 25" (LxWxH) dimension

For Thickness Determination of Dry-Film Organic Coatings on Metal Sheets

1.1.a One (1) piece of sample with at least 3" x 6" dimension



<p><u>For Thickness Determination of Metallic Coatings on Various Base Metals</u> 1.1.a Sample must have flat surface with minimum width/diameter of 20 mm</p> <p><u>For Determination of Mass Coating (MC) per Unit Area for Plain/ Prepainted G.I Sheets and G.I Wires</u> 1.1.a For Plain/Prepainted Sheets: Average MC: 1 pc 1ft x 1ft (L x W) Triple Spot MC: 1 pc with 1ft L x width (W) of the coil 1.1.b For Wires: 1 meter long</p>	
1.2 One (1) Authorization Letter (for person other than Company's representative)	Company/Industry requesting for testing
1.3 One (1) Company ID and one (1) government issued ID	Company/Industry requesting for testing
1.4 For BPS endorsed samples: one (1) original or photocopy of BPS Request for Test for each laboratory and uploaded Request for Test on PCIMS	Department of Trade and Industry Bureau of Philippine Standards (DTI-BPS)
1.5 For students: one (1) Letter of Request for Discount and School ID	School/University where the student is enrolled
2. Claiming of Test Certificates	
2.1. One (1) original or photocopy of issued Technical Service Request (TSR)	MIRDC-Analysis and Testing Division Head Office (ATD-DHO) Centralized Receiving Area, Ground Floor, Gold Building
2.2. One (1) original or photocopy of issued Official Receipt/Confirmation Receipt	MIRDC-Finance and Admin Division, Cashier Office, Ground Floor, Gold Building
2.3. One (1) Authorization Letter (for person other than Company's representative)	Company/Industry requesting for testing
2.4. One (1) Company ID and one (1) government issued ID	Company/Industry requesting for testing
2.5 Property Entry/Exit Slip	MIRDC-Analysis and Testing Division Head Office (ATD-DHO) Releasing Area, Ground Floor, Gold Building



CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Proceed to ATD-DHO Centralized Receiving area	1.1 Interview the customer to determine what specific tests/calibration he/she needs 1.2 Refer the customer to the laboratory personnel concerned	None	3 minutes	<i>Production Planning Control Officer I ATD-DHO or Administrative Assistant III ATD-DHO or Authorized Contract of Service Personnel ATD-DHO</i>
2. Request for the required tests/analysis	2.1 Evaluate sample/s and check required parameters for testing 2.2 Receive the required documents 2.3 Generate two (2) Technical Service Request (TSR) forms using Unified Laboratory Information Management System (ULIMS) to be signed by the customer and the laboratory representative.	None	17 minutes	For ALS <i>Senior Science Research Specialist ALS (Physico-Chemical Laboratory) or Science Research Specialist II ALS (Corrosion Laboratory)</i> For PLS <i>Supervising Science Research Specialist PLS or Senior Science Research Specialist PLS (Non-destructive Testing Laboratory) or</i>



				<i>Senior Science Research Specialist PLS (Mechanical Metallurgy Laboratory) or Science Research Specialist II PLS (Auto-parts Testing Laboratory)</i>
<p>3. Sign the two (2) Technical Service Request (TSR) Form</p>	<p>3.1 Review TSR, affix signature and give one (1) copy to customer. TSR will serve as claim stub</p> <p>3.2 Update Google Monitoring Sheet</p> <p>3.3 Label sample/s submitted according to TSR</p>	None	10 minutes	<p>For ALS <i>Senior Science Research Specialist ALS (Physico-Chemical Laboratory) or Science Research Specialist II ALS (Corrosion Laboratory)</i></p> <p>For PLS <i>Supervising Science Research Specialist PLS or Senior Science Research Specialist PLS (Non-destructive Testing Laboratory) or</i></p>



				<i>Senior Science Research Specialist PLS (Mechanical Metallurgy Laboratory) or Science Research Specialist II PLS (Auto-parts Testing Laboratory)</i>
<p>4. Proceed to Cashier for payment and present the TSR</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 6</p>	4. Issue Order of Payment	<p>See Table of Testing Fees</p> <p><i>Students can avail 20% discount on total cost</i></p> <p><i>Additional 30% on total cost for rush analysis on some parameters</i></p>	5 minutes	<i>Administrative Officer IV Financial Management Section or Administrative Officer V Financial Management Section</i>
5. Wait for the issuance of Order of Payment and pay.	<p>5.1 Accept payment based on the Order of Payment</p> <p>5.2 Issue the Official Receipt</p>	None	10 minutes	<i>Administrative Officer V Administrative and General Services Section or Administrative Officer II Administrative and General Services Section</i>



<p>6. Track the status of service requested at mirdc.dost.gov.ph/tracking/ using the issued TSR Reference Number as reference.</p>	<p>6. Conduct sample preparation</p>	<p>None</p>	<p>3 working days</p>	<p>For ALS <i>Laboratory Inspector I</i> ALS (Physico-Chemical Laboratory) or <i>Metals Technologist III</i> ALS (Corrosion Laboratory)</p> <p>For PLS <i>Science Research Specialist II</i> PLS (Non-destructive Testing Laboratory) or <i>Science Research Specialist II</i> PLS (Mechanical Metallurgy Laboratory) or <i>Science Research Specialist II</i> PLS (Auto-parts Testing Laboratory)</p>
<p>7. Request for witnessing the conduct of the actual testing (optional) on the schedule set by the concerned laboratory.</p>	<p>7. Conduct Test/Analysis of sample/s.</p>	<p>None</p>	<p>10 working days (Testing time may vary depending on the method used and quantity of samples received, maximum of 14)</p>	<p>For ALS <i>Senior Science Research Specialist</i> ALS or <i>Science Research Specialist II</i> ALS</p>



			days. Queuing system applies)	<i>Senior Science Research Specialist PLS (Non-destructive Testing Laboratory)</i> or <i>Senior Science Research Specialist PLS (Mechanical Metallurgy Laboratory)</i> or <i>Science Research Specialist II PLS (Auto-parts Testing Laboratory)</i>
8. Return to MIRDC on the completion date indicated in the TSR or as per status on the online tracking system to claim the certificate/s Proceed to ATD-DHO Releasing Area. and present the customer's TSR, Official Receipt/Confirmation Receipt, Authorization Letter (if representative)	8. Check documents and advise customer to settle balance, if any.	None	10 minutes	<i>Production Planning Control Officer I ATD-DHO</i> or <i>Administrative Assistant III ATD-DHO</i> or <i>Authorized Contract of Service Personnel ATD-DHO</i>



<p>9. Proceed to Cashier and settle balance.</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp</p>	<p>9. Issue the Official Receipt</p>	<p>See Table of Fees</p>	<p>15 minutes</p>	<p><i>Administrative Officer IV</i> <i>Financial Management Section</i> or <i>Administrative Officer V</i> <i>Administrative and General Services Section</i></p>
<p>10. Return to ATD-DHO Releasing Area and present Official Receipt/Confirmation Receipt</p>	<p>10. Check Official Receipt/Confirmation Receipt and have the customer signed on the Pink Copy (Laboratory's Receiving copy) of Test Certificate and give the original copy to customer</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Production Planning Control Officer I</i> <i>ATD-DHO</i> or <i>Administrative Assistant III</i> or <i>Authorized Contract of Service Personnel</i> <i>ATD-DHO</i></p>
<p>11. Sign the Pink Copy of Test Certificate</p>	<p>11.1 Issue Property Entry/Exit Slip</p>	<p>None</p>	<p>3 minutes</p>	<p><i>Production Planning Control Officer I</i> <i>ATD-DHO</i> or <i>Administrative Assistant III</i> or <i>Authorized Contract of Service Personnel</i> <i>ATD-DHO</i></p>



	11.2 Call the laboratory personnel to bring the tested samples at ATD-DHO for releasing.	None	10 minutes	<i>Production Planning Control Officer I ATD-DHO or Administrative Assistant III or Authorized Contract of Service Personnel ATD-DHO</i>
12. Sign the Property Entry/Exit Slip.	12. Stamp TSR with "RELEASED" and return to customer together with the OR.	None	3 minutes	<i>Production Planning Control Officer I ATD-DHO or Administrative Assistant III or Authorized Contract of Service Personnel ATD-DHO</i>
13. Customer fills out Customer/Client Satisfaction Survey Form when necessary	13. Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	<i>Production Planning Control Officer I ATD-DHO or Administrative Assistant III or Authorized Contract of Service Personnel ATD-DHO</i>
14. Present to the gate guard the Property Entry/Exit Slip	14. Check the Property Entry/Exit Slip and the items to be taken out	None	1 minute	<i>Security Guard on duty MIRDC</i>
		TOTAL	13 days, 1 hour and 37 minutes	



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
If sample requires machining	Client may avail of the services of MIRDC-Technical Services Solution (TSS) with a corresponding fee	Technical Services Solution (TSS), Ground Floor, Titanium Building	Samples are machined to specimen as per standard in case full size testing is not possible.
For Client securing PS Mark Certification	The Test Certificate shall be uploaded to PCIMS sent directly to BPS. No copy of the Test Certificate shall be issued to the Client.	ATD-DHO Releasing Area, Ground Floor, Gold Building	BPS Policy
Too hard samples that can't be drilled may require annealing process	Client may avail of the services of MIRDC-Technical Services Solution (TSS) with a corresponding fee	Technical Services Solution (TSS), Ground Floor, Titanium Building	Hardness shall be reduced to $\leq 20\text{HRC}$
When there is no available test jig/fixture in the laboratory	Customer shall provide the required test jig/fixture	Preferred machine shop of the customer	The supplied fixture shall conform to customer's requirements. This can be retrieved after the test.
For Salt Spray, the above processing time is only applicable for 24 to 120-hour salt spray test request.	The laboratory will add appropriate processing time for every additional hours of exposure time.	ATD-DHO Centralized Receiving Area, Ground Floor, Gold Building	Salt spray test is conducted on a scheduled basis due to availability of machine, personnel and time of submission of sample/s.
For sample requiring Grade Verification after chemical analysis	Client may avail of the Metal Classification/Certification service of Physical Metallurgy Laboratory with a corresponding fee	Physical Metallurgy Laboratory, Ground Floor, Titanium Building	A complete chemical analysis of the sample is a pre-requisite



For internal jobs (jobs requested by other Unit/Section/Division)	The same procedure applies from Job Acceptance to Releasing	ATD-DHO Centralized Receiving Area, Ground Floor, Gold Building	Laboratory testing/calibration fees are waived.
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TABLE OF FEES

AUTO-PARTS TESTING SERVICES

PUV DIMENSIONAL MEASUREMENT	
	FEE
A. Class 2 and 3	PhP 17,830/unit
<i>I. Overall height, width and length</i>	PhP 4,110/meas.
<i>II. Wheel base and front and rear overhang</i>	PhP 2,140/meas.
<i>III. Cabin Dimensions</i>	PhP 1,150/meas.
<i>IV. Seat Dimensions and Seat Layout</i>	PhP 1,640/meas.
<i>V. Space for each standing passenger</i>	PhP 1,520/meas.
<i>VI. Step Board Dimensions</i>	PhP 1,640/meas.
<i>VII. Service Door Dimensions</i>	PhP 650/meas.
<i>VIII. Emergency Exit Dimensions</i>	PhP 650/meas.
<i>IX. Hand Rails</i>	PhP 1,150/meas.
<i>X. External Projections</i>	PhP 4,110/meas.
<i>XI. Field of Vision</i>	PhP 1,640/meas.
B. Class 1	PhP 20,500/unit
<i>I. Overall height, width and length</i>	PhP 4,110/meas.
<i>II. Wheel base and front and rear overhang</i>	PhP 2,140/meas.
<i>III. Cabin Dimensions</i>	PhP 1,150/meas.
<i>IV. Seat Dimensions and Seat Layout</i>	PhP 1,640/meas.
<i>V. Step Board Dimensions</i>	PhP 1,640/meas.
<i>VI. Service Door Dimensions</i>	PhP 650/meas.
<i>VII. Emergency Exit Dimensions</i>	PhP 1,640/meas.
<i>VIII. Hand Rails</i>	PhP 1,150/meas.
<i>IX. External Projections</i>	PhP 4,110/meas.
<i>X. Field of Vision</i>	PhP 3,120/meas.

TIRE ENDURANCE TEST	
	FEE
1. Load/Speed Performance Test	
<i>I. Motorcycle</i>	PhP 4,800/sample
<i>II. Passenger Car</i>	PhP 8,100/sample
<i>III. Truck/Buses</i>	PhP 11,200/sample



2. Tire Endurance Test	
I. Motorcycle	Per quotation basis
II. Passenger Car	Per quotation basis
III. Truck/Buses	Per quotation basis
0. Photo	PhP 80/photo
0. Witnessing of Test	PhP 250/TSR/Day
0. Courier Service	PhP 120/TSR

MECHANICAL METALLURGY TESTING SERVICES

1. Tension Test	
1.1 <1500mm ²	₱ 390/sample
1.2 >1500mm ²	₱ 670/sample
2. Test on Threaded Fasteners	₱ 375/sample
2.1 Axial Tension Test	₱ 375/sample
2.2 Shear Test	₱ 375/sample
3. Complete Physical Tests of Equal Leg Angle Steel Bar	
3.1 Tension Using Shimadzu 50kN	₱ 390/sample
3.2 Dimension Test	₱ 230/sample
3.3 Out of square Test	₱ 205/sample
3.4 Test of Camber	₱ 185/sample
3.5 Variation in Mass	₱ 50/sample
4. Complete Physical Tests of Reinforcing Steel Bars	
4.1 Tension Test	
4.1.1 <1500mm ²	₱ 390/sample
4.1.2 >1500mm ²	₱ 670/sample
4.2 Bend Test	₱ 190/sample
4.3 Variation in Mass	₱ 50/sample
4.4. Deformation Measurement	₱ 50/sample
4.5. Variation in Mass	₱ 50/sample
5. Complete Physical Tests of Wires	
5.1 Tension	₱ 390/sample
5.2 Physical Appearance	₱ 125/sample
5.3 Dimension Test	₱ 300/sample
5.4 Torsion Test	₱ 225/sample
5.5 Winding Test	₱ 225/sample
6. Hardness Test	
6.1 Rockwell, 5 Indentations	₱ 140
6.2 Brinell, 2 Indentations	₱ 180



6.3 Vickers, 5 Indentations	₱ 240
6.4 Micro Vickers, 1 Indentation	₱ 270
6.5 Microdur, 5 Indentations	₱ 180
7. Tests of Nails	
7.1 Tension Test (Using Shimadzu 50kN)	₱ 390/sample
7.2 Bend Test	₱ 190/sample
7.3 Dimensional for Nails	₱ 350/sample
8. Test on LPG Cylinders for Requalification	
8.1. Air Leak Test	
8.1.1 2 Piece Cylinder	₱ 1,600/sample
8.1.2 3 Piece cylinder	₱ 2,500/sample
8.2. Hydrostatic Test	
8.2.1 2 Piece Cylinder	₱ 3,650/sample
8.2.2 3 Piece cylinder	₱ 4,750/sample
9. Test on New LPG Cylinders	
9.1 Tension Test	₱ 390/sample
9.2 Bend Test	₱ 190/sample
9.3 Burst Test	
9.3.1 2-Piece Cylinder	₱ 1,550/sample
9.3.2 3-Piece cylinder	₱ 3,500/sample
9.4. Macroexamination	₱ 1,330/sample
10. Breakingload/Proofload Test on Metallic Samples thru Tension/Compression/Flexure	
10.1 Manhole Cover / Grating	₱ 1,250/sample
10.2 Clevis Assembly	₱ 1,325/sample
10.3 Turn Buckle, 1"- 2"	₱ 745/sample
10.4 Turn Buckle, > 2"	₱ 1,480/sample
10.5 Wire Rope $\geq 1 \frac{1}{2}$ "	₱ 1,250/sample
10.6 Small Samples (< 15kg)	₱ 355/sample
10.7 Big Samples (15 to 35kg)	₱ 655/sample
10.8 Heavy Sample (above 35kg)	₱ 1,550/sample
10.9 7 wire strands	₱ 1,250/sample
11. Hydrostatic Testing on Metallic Sample	Based on Quotation
12. Tests on Welds	
12.1 Tension	₱ 390/sample
12.2 Bend	₱ 190/sample
12.3 Macroexamination	₱ 1,330/sample
13. Sample Preparation	
13.1 Notching	₱ 125/sample
13.2 Grinding	₱ 85/sample
13.3 Cutting	



13.3.1 Oxy-acetylene	₱ 50/sample
13.3.2 Up to 1in ²	₱ 160/sample
13.3.3 1-4in ²	₱ 220/sample
14. Other Fees	
14.1 Photo	₱ 80/photo
14.2 Witnessing	₱ 250/TSR/day
14.3 Courier	₱ 120

NON-DESTRUCTIVE TESTING SERVICES

	FEE
1. Liquid Penetrant Testing	
1.1. Visible	PhP370/ sq. ft.
1.2 Visible	PhP360/ linear ft.
1.3 Fluorescent	PhP420/ sq. ft.
1.4 Fluorescent	PhP370/ linear ft.
2. Magnetic Particle Testing	
2.1. Visible	PhP410/ sq. ft.
2.2 Visible	PhP380/ linear ft.
2.3 Fluorescent	PhP430/ sq. ft.
2.4 Fluorescent	PhP390/ linear ft.
3. Radiographic Testing (3.5" x 17" Film)	
3.1. 10mm thick and below	PhP540.00
3.2 >10-25 mm thick	PhP570.00
3.3 >25-35 mm thick	PhP620.00
3.4 >35-50 mm thick	PhP660.00
4. Ultrasonic Testing	
4.1. Flaw Detection (per sq.ft.)	PhP385.00
4.2 Flaw Detection (per ln.ft.)	PhP420.00
4.3 Thickness Gaging (per point)	PhP60.00
5. Witnessing	PhP 250/TSR/day

PHYSICO-CHEMICAL TESTING SERVICES

Chemical Analysis using Spark Optical Emission Spectrometer (OES)	
1. FERROUS-BASED SAMPLES	
1.1 Complete Analysis (C,Si,Mn,P,S,Cr,Mo,Ni,Cu)	₱ 3550/sample
1.2 Additional elements (B,V,Nb,Ti, Mg)	₱ 395/element
1.3 Carbon Equivalent (CE)	₱ 750/sample



2. FOR BPS-ENDORSED SAMPLES	
2.1 Weldable Rebars, Equal Leg Angle Bars, LPG Cylinders (C, Si, Mn, P, S)	₱ 3,550/sample
2.2 Non-Weldable Rebars (P, S)	₱ 1,810/sample
3. NON-FERROUS BASED SAMPLES	
COPPER AND COPPER ALLOYS	
3.1 Complete Analysis (Pure Copper) (Cu, Sn, Pb, Fe, Al, Ni, Mn, Ag, P, S, Co, Sb)	₱ 3,900/sample
3.2 Additional elements (Bi, Si, Zn)	₱ 395/sample
3.3 Complete Analysis (Brass, Bronze and other Copper Alloys) (Cu, Sn, Pb, Fe, Al, Ni, Mn, Ag, P, S, Co, Zn)	₱ 3,900/sample
3.4 Additional elements (Bi, Si, Mg)	₱ 395/sample
ALUMINUM AND ALUMINUM ALLOYS	
3.5 Complete Analysis (Al, Mn, Mg, Cu, Zn, Ni, Cr, Pb, Fe, Ti)	₱ 3,900/sample
3.6 Additional elements (Ag, Bi, Co, P)	₱ 395/sample
Chemical Analysis using X-ray Fluorescence (XRF) Spectrometer	
4.1 Scanning	₱ 2,200/sample
4. OTHER FEES	
4.1 Sample preparation (for rebars, 10mm, 12mm Ø)	₱ 190/sample
4.2 Metal Identification	₱ 750/sample
4.3 Witnessing Fee	₱ 250/TSR
4.4 Photo	₱ 80/shot



Chemical Analysis using Wet and Instrumental Method

MATERIAL	INFRARED COMBUSTION	WET/ELECTROLYSIS				AAS	UV-VIS	TOTAL COST
Ferrous Based								
Low Alloy Steel	C,S ₱650/element	Si ₱1130	P ₱1160			Mn,Ni,Cu,Cr ₱670/element	Mo ₱1530	₱7,800.00
Cast Iron	C,S ₱650/element	Si ₱1130	P ₱1160			Mn,Ni,Cu,Cr ₱670/element	Mo ₱1730	₱8,000.00
Stainless Steel	C,S ₱650/element	Si ₱1130	P ₱1160	Ni ₱1120	Cr ₱840	Mn,Cu ₱670/element	Mo ₱1530	₱8,420.00
Manganese Steel	C,S ₱650/element	Si ₱1130	P ₱1160	Mn ₱1620		Cu,Ni,Cr ₱670/element	Mo ₱1530	₱8,750.00
Tool Steel	C,S ₱650/element	Si ₱1130	P ₱1160			Mn,Ni,Cu,Cr ₱670/element	Mo ₱1730	₱8,000.00

Non-Ferrous Based

Solder, Lead Base, Tin Base, Babbitt and other similar alloys

a. Pb(rem) >20%						Sn, Sb, Cu, Ag, Ni, Fe, Bi, Zn, Al ₱670/element		₱6,030.00
b. Pb(rem) >20%		Sb ₱680	Sn ₱725			Cu, Ag, Ni, Fe, Bi, Zn, Al ₱670/element		₱6,095.00
c. Sn (rem) >75%						Pb, Sb, Cu, Ag, Ni, Fe, Bi, Zn, Al ₱670/element		₱6,030.00
c. Sn (rem), Pb (wet) (> 75%) (= / < 20%)		Pb ₱1140	Sb ₱680			Cu, Ag, Ni, Fe, Bi, Zn, Al ₱670/element		₱6,510.00

Complete chemical analysis shall be done if Pb and Sn are to be reported.

It is possible to analyze one or more elements provided Pb is not to be reported and % Sn is less than 75%.



(cont): Chemical analysis using Wet and Instrumental Method

MATERIAL	INFRARED COMBUSTION	WET/ELECTROLYSIS		AAS	UV-VIS	TOTAL COST	
Copper Based Metals							
Copper (Pure) 99.75% and over		Cu ₱1085		Cd, Co, Fe, Mn, Ni, Ag, Zn ₱670/element		₱5,775.00	
Brass Zn (rem)	S ₱650	Cu ₱1085		Pb, Sn, Al, Ni, Fe, Mn, Sb, Ag, Co ₱670/element	P ₱1100	₱8,865.00	
Bronze Zn (rem) if > 5%, Cu > 40%	S ₱650	Cu ₱1085	Sn ₱725		Pb, Al, Ni, Fe, Mn, Sb, Ag, Co ₱670/element	P ₱1100	₱8,920.00
Bronze if Zn < 5% /Cu Alloys	S ₱650	Cu ₱1085	Sn ₱725		Zn, Pb, Al, Ni, Fe, Mn, Sb, Ag, Co ₱670/element	P ₱1100	₱9,590.00
Copper - Lead Alloy	S ₱650	Cu ₱1085	Pb ₱1140		Zn, Sn, Al, Ni, Fe, Mn, Sb, Ag, Co ₱670/element	P ₱1100	₱10,005.00
Cu-Ni Alloy/ Cu-Ni-Zn Alloy Zn (rem)		Cu ₱1085	Ni ₱1120		Pb, Sn, Fe, Mn, Al, Sb, Co, Ag ₱670/element		₱7,565.00
Cu-Ni Alloy/ Cu-Ni-Zn Alloy Zn < 5%		Cu ₱1085	Ni ₱1120		Zn, Pb, Sn, Fe, Mn, Al, Sb, Co, Ag ₱670/element		₱8,235.00
Manganese - Copper Alloy	C,S ₱650/element	Cu ₱1085	Mn ₱1620	P ₱1100		₱5,105.00	



MATERIAL	INFRARED COMBUSTION	WET/ELECTROLYSIS					AAS	UV-VIS			TOTAL COST
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Aluminum Based

Aluminum (Pure) Al (rem)							Mn, Mg, Cu, Zn, Ni, Cr, Pb, Sn ₱670/element	Si ₱1130	Fe ₱670	Ti ₱730	₱7,890.00
Al - Si Alloy Al (rem)		Si ₱1130					Mn, Mg, Cu, Zn, Ni, Cr, Pb, Sn ₱670/element	Fe ₱670	Ti ₱730		₱7,890.00
Al - Si - Mg Alloy Al (rem)		Si ₱1130					Mn, Cu, Zn, Ni, Cr, Pb, Sn ₱670/element	Fe ₱670	Ti ₱730		₱7,220.00

Nickel Alloys

Nickel (Pure) Al (rem)	C,S ₱650/element	Si ₱1130	Ni ₱1120				Mn, Cu, Co, Fe ₱670/element				₱6,230.00
Nickel - Copper Alloy Al (rem)	C,S ₱650/element	Cu ₱1085	Ni ₱1120				Mn, Al, Co, Fe ₱670/element				₱6,185.00
Ni - Cr Alloy Al (rem)	C,S ₱650/element	Si ₱1130	Ni ₱1120	Cr ₱840	P ₱1160		Mn, Al, Co, Fe, Cu ₱670/element	Mo ₱1530			₱10,430.00
Ni - Cr - Fe Alloy Al (rem)	C,S ₱650/element	Si ₱1130	Ni ₱1120	Cr ₱840	P ₱1160	Fe ₱1280	Mn, Al, Co, Cu ₱670/element	Mo ₱1530			₱11,040.00

Zinc (Pure) Zn (rem)							Cu, Fe, Cd, Pb, Al, Sn, Mg ₱670/element				₱4,690.00
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NON-ISO

Silver Brazing Al (rem)		Cu ₱1085	Ag ₱1160								₱2,245.00
Silver Brazing Al (rem)		Cu ₱1085	Ag ₱1160				Zn, Cd ₱670/element				₱3,585.00
High P Brazing Alloy Al (rem)		Cu ₱1085	Ag ₱1160					P ₱1100			₱3,345.00

OTHER FEES

Metals Identification	₱750.00/sample										
Witnessing Fee	₱250.00/TSR										
Photo	₱80.00/shot										



CORROSION TESTING SERVICES

	Rate (Php) per sample
<u>Determination of Mass Coating (MC) per Unit Area for Plain/Prepainted GI Sheets and Plain Wires</u>	
Average of Single Spot	
GI Sheet	430.00
GI Wire	420.00
Prepainted GI Sheet	540.00
Triple Spot	
GI Sheet	520.00
Prepainted GI Sheet	590.00
<u>Thickness Determination of Dry-Film Organic Coatings on Metal Sheets</u>	
Thickness Test (Top Coat/Back Coat/Total Thickness)	480.00
<u>Complete Adhesion Tests of Dry-Film Organic Coatings on Metal Sheets</u>	
Bend Test	240.00
Tape Test	215.00
Impact Test	300.00
Pencil Hardness Test	250.00
<u>Complete Physical Tests for Plain and Prepainted Galvanized Sheets For GI Sheets</u>	
Package 1 –Triple Spot MC, Bend Tests	760.00
Package 2 – Averaging MC, Bend Tests	670.00
<u>For Prepainted Sheets</u>	
Package 3 –Triple Spot MC, Paint Thick, Bend, Tape, Impact, Pencil Hardness Test	2,075.00
Package 4- Averaging MC, Paint Thick. Bend, Tape, Impact, Pencil Hardness Test	2,025.00
<u>Salt Spray Testing of Metals and Metal Products</u>	
For the First Sample:	
Weekday	2,410.00/24hrs
Weekend	3,060.00/24hrs*
	*applicable for requests beyond 96 hrs
Additional Sample	300.00



<u>Thickness Determination of Metallic Coatings on Various Base Metals</u>		
Coulometric-Single Layer		570.00
Additional Layer		300.00
Magnetic Induction		550.00
Specific Gravity		250.00
<u>Sample Preparation (Stripping of Coating)</u>		
GI Wires		100.00
GI Sheets/Prepainted GI Sheets/Blackened Samples		120.00
Other Fees		
Witnessing	250.00/TSR	
Photo	80.00/shot	

II. In-House Calibration Services

In-house calibration services conducted at MIRDC Instrumentation and Metrology Laboratories, covers the parameters on Dimensional Metrology, Pressure, Torque, Force, Weight (Electronic Balances or Non-automatic weighing scale), Thermometry and Electrical Instruments. These services are provided for the metals, engineering and allied industries through comparison with MIRDC laboratory reference standards to ensure their accuracy and traceability to System International (SI) units through standards maintained by a National Measurement Institute.

Office/Division:	Analysis and Testing Division – Instrumentation and Metrology Section (IMS)	
Classification:	Highly Technical	
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government	
Who may avail:	All	
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE
1. Submission Instruments/ Equipment		
1.1 Instruments/ Equipment for calibration must be in good working condition. Our services do not include repairs. Client shall provide all the accessories (batteries, manuals, charger, power supply, etc.) of the instrument deemed necessary for the calibration process.		Company requesting for calibration



1.2 Technical Service Request (TSR) form	Analysis and Testing Division Head Office (ATD-DHO) Centralized Receiving Area			
1.3 One (1) Authorization Letter (for person other than Company's representative)	Company requesting for calibration			
1.4 One (1) Company ID and one (1) government issued ID	Company requesting for calibration			
1.5 For students: one (1) Letter of Request for Discount and School ID	School/University requesting for calibration			
2. Claiming of Calibration Certificates				
2.1. One (1) original or photocopy of issued Technical Service Request (TSR)	MIRDC-Analysis and Testing Division Head Office (ATD-DHO) Centralized Receiving Area, Ground Floor, Gold Building			
2.2 Payment (cash or company dated check)	Client/Industry requesting for in plant services			
2.3 One (1) original or photocopy of issued Official Receipt/Confirmation Receipt, and Invoice (if applicable)	Cashier Office, MIRDC-Finance and Admin Division, Ground Floor, Gold Building			
2.4. One (1) Authorization Letter (for person other than Company's representative)	Company/Industry requesting for calibration			
2.5. One (1) Company ID and one (1) government issued ID	Company/Industry requesting for calibration			
2.6 Property Entry/Exit Slip	MIRDC-Analysis and Testing Division Head Office (ATD-DHO) Releasing Area, Ground Floor, Gold Building			
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Proceed to ATD-DHO Centralized Receiving Area and submit instruments subject for In-house Calibration service.	1.1 Evaluate instrument/s and check the functionality test and the required parameters for calibration. 1.2 Generate three (3) copies (One copy for the Customer, for the	None <i>No down payment is required for all in-house calibration service.</i>	15 minutes	<i>Senior Science Research Specialist</i> IMS (Officer in Charge) or <i>Senior Science Research Specialist</i> IMS (Metrology) or <i>Science Research Specialist II</i> IMS (Instrumentation)



	Laboratory, and for ATD-DHO) of Technical Service Request (TSR) forms using Unified Laboratory Information Management System (ULIMS).			
<p>2. Review the contents of TSR to ensure that all the requirements for the conduct of in-house calibration service are met, and then sign the Technical Service Request (TSR) Form (in 3 copies) that were generated by the receiving personnel.</p> <p>The TSR furnished to customer will also serve as claim stub.</p>	<p>2.1 Review TSR, affix signature and give one (1) copy to customer.</p> <p>2.2 Update Google Monitoring Sheet</p> <p>2.3 Put tag or labels on each instrument for in-house calibration service</p>	None	5 minutes	<p><i>Senior Science Research Specialist</i> IMS (Officer in Charge) or <i>Senior Science Research Specialist</i> IMS (Metrology) or <i>Science Research Specialist II</i> IMS (Instrumentation)</p>
<p>3. Present all company required documents, if applicable (<i>PO, Receiving documents copies, etc.</i>)</p>	<p>3.1 Receive the required documents, if applicable (<i>PO, Receiving documents copies, etc.</i>)</p> <p>3.2 Distribute the instrument/ equipment to laboratory</p>	None	3 minutes	<p><i>Senior Science Research Specialist</i> IMS (Officer in Charge) or <i>Senior Science Research Specialist</i> IMS (Metrology) or <i>Science Research Specialist II</i></p>



	areas as per parameter.			IMS (Instrumentation)
4. Track the status of service requested at mirdc.dost.gov.ph/tracking/ using the issued TSR Reference Number.	4. Conduct calibration	None	14 working days (Calibration time may vary depending on the method used and quantity of samples received, Queuing system applies)	<i>Senior Science Research Specialist</i> IMS (Metrology) or <i>Science Research Specialist II</i> IMS (Instrumentation)
5. Return to MIRDC to claim the Calibration Certificate. Proceed to ATD-DHO Centralized Receiving Area. and present the original copy of TSR form. <i>In case of lost original copy of the TSR, the person who claims the calibration certificates and/ or items, must present a signed letter from the listed Customer, stating that such person is authorized to retrieve said items.</i>	5.1 Evaluate the TSRs customer's copy. 5.2 Check documents and advise customer to settle balance, if any.	None	5 minutes	<i>Production Planning Control Officer I</i> ATD-DHO or <i>Administrative Assistant III</i> or <i>Authorized Contract of Service Personnel</i> ATD-DHO



<p>6. Proceed to Cashier for payment and present the TSR</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 8</p>	<p>6. Issue Order of Payment</p>	<p><i>Refer to DOST AO No. 006 Series of 2018, prescribed calibration fees</i></p>	<p>5 minutes</p>	<p><i>Administrative Officer IV Financial Management Section or Administrative Officer V Financial Management Section</i></p>
<p>7. Wait for the issuance of Order of Payment and pay.</p>	<p>7.1 Accept payment based on the Order of Payment</p> <p>7.2 Issue the Official Receipt</p>	<p>None</p>	<p>10 minutes</p>	<p><i>Administrative Officer V Administrative and General Services Section or Administrative Officer II Administrative and General Services Section</i></p>
<p>8. Go back to ATD-DHO Releasing Area and present Official Receipt/Confirmation Receipt</p>	<p>8. Check Official Receipt/Confirmation Receipt and have the customer signed on the Pink Copy (Laboratory's Receiving copy) of Calibration Certificate and give the original copy to customer</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Production Planning Control Officer I ATD-DHO or Administrative Assistant III ATD-DHO or Authorized Contract of Service Personnel ATD-DHO</i></p>



<p>9. Sign the Pink Copy of the Certificates</p>	<p>9.1 Issue Property Entry/Exit Slip</p>	<p>None</p>	<p>3 minutes</p>	<p><i>Production Planning Control Officer I</i> ATD-DHO or <i>Administrative Assistant III</i> ATD-DHO or <i>Authorized Contract of Service Personnel</i> ATD-DHO</p>
	<p>9.2 Call the laboratory personnel to bring the tested samples at ATD-DHO for releasing.</p>	<p>None</p>	<p>15 minutes</p>	<p><i>Production Planning Control Officer I</i> ATD-DHO or <i>Administrative Assistant III</i> ATD-DHO or <i>Authorized Contract of Service Personnel</i> ATD-DHO</p>
<p>10. Sign the Property Entry/Exit Slip.</p>	<p>10. Stamp TSR with "RELEASED" and return to customer the TSR, OR together with the Calibration Certificates and Property Entry/Exit Slip</p>	<p>None</p>	<p>3 minutes</p>	<p><i>Production Planning Control Officer I</i> ATD-DHO or <i>Administrative Assistant III</i> ATD-DHO or <i>Authorized Contract of Service Personnel</i> ATD-DHO</p>



11. Customer fills out Customer/Client Satisfaction Survey Form	11.1 Let the customer fill out the Customer/Client Satisfaction Survey Form 11.2 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	<i>Production Planning Control Officer I ATD-DHO or Administrative Assistant III ATD-DHO or Authorized Contract of Service Personnel ATD-DHO</i>
12. Present to the gate guard the Property Entry/Exit Slip	12. Check the Property Entry/Exit Slip and the items to be taken out	None	1 minute	<i>Security Guard on duty MIRDC</i>
		TOTAL	14 days, 1 hour and 15 minutes	



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
For multiple jobs or TSRs requests and complexity of the instruments evaluated and received within the day	<p>Conduct of calibration will be on scheduled basis depending on the availability of laboratory reference standard and calibration officers</p> <p>14 working days from receipt of sample, depending on the quantity and complexity of test / calibration performed.</p>	Analysis and Testing Division, Instrumentation and Metrology Section, Ground Floor, Gold Building	Queueing system (First In First Out)
For un-stable laboratory environmental condition due to Air-Conditioning system and other Influence Quantity factors	The Client will be informed that the stabilization time process will be extended.	Analysis and Testing Division, Instrumentation and Metrology Section, Ground Floor, Gold Building	Queueing system (First In First Out)
For complex instrument not included in the Fees and Charges in the DOST Administrative Order No.006	The Client will be provided with Quotation approved by the Head of Agency or his Authorized Representative. The calibration process will only commence upon approval/acceptance of the quotation and the corresponding issuance of Purchase Order by the client	Analysis and Testing Division, Instrumentation and Metrology Section, Ground Floor, Gold Building	Follow MIRDC procedure on Tender Request and Contract
For internal jobs (jobs requested by other Unit/Section/Division)	The same procedure applies from Job Acceptance to Releasing	ATD-DHO Centralized Receiving Area, Ground Floor, Gold Building	Laboratory testing/calibration fees are waived.



TABLE OF CALIBRATION FEES

(Per DOST Administrative Order No. 006, series of 2018 “Prescribe Calibration Fees for ITDI, MIRDC, PAG-ASA and Regional Metrology Laboratories (RMLs)”)

Type of Equipment/Device	Fees (Pesos)
ELECTRICAL	
AC Current Source/Standard up to 50A	2,650.00
per succeeding range	750.00
AC Voltage Source/Standard up to 1000V	 1,750.00
per succeeding range	550.00
Ammeter (AC,20 A) 1 to 2 ranges	 750.00
1 to 5 ranges	1,200.00
Ammeter (DC,2 A and below) 1 to 2 ranges	 700.00
1 to 5 ranges	1,150.00
Ammeter (DC,above 2 A) 1 to 2 ranges	 1,000.00
1 to 5 ranges	1,700.00
AC Clampmeter (up to 500A) up to 500A	 800.00
per succeeding range	300.00
Current Shunt, (AC, 10 A)	1,300.00
Current Shunt, (AC, 50 A)	1,650.00
Current Shunt, (DC, 10 A)	1,400.00
Current Shunt, (DC, 50 A)	1,700.00
DC Current Source/Standard Up to 50A	 2,100.00
per succeeding range	900.00
DC Voltage Source/Standard by direct measurement up to 1000V	 1,400.00
per succeeding range	650.00
by transfer method up to 1000V	 2,600.00
per succeeding range	1,100.00
DC Clampmeter up to 500A	 900.00
per succeeding range	350.00
Decade Resistance Box (per dial)	1,100.00



Double Bridge	
1st range	1,800.00
per succeeding range	1,100.00
Earth Tester	
1st range	1,350.00
per succeeding range	400.00
Electronic Load	
up to 20A	1,200.00
per succeeding range	800.00
Groundstrap Tester/Checker	
1st range	550.00
per succeeding range	330.00
High Voltage Meter (up to 10 kV)	
Up to 10 kV	2,000.00
per succeeding range	1,150.00
Insulation Tester (Megohmmeter)	
up to 1000V	1,050.00
per succeeding range	350.00
Megohmmeter	
up to 1000MΩ	1,090.00
per succeeding range	350.00
Kelvin Bridge	
up to 1MΩ	
per succeeding range	1,250.00
Millivolt Potentiometer	
Up to 100mV	1,850.00
per succeeding range	900.00
Multimeter, Analog	2,250.00
Multimeter, Digital,	
3 ½ digits	3,250.00
4 ½ digits	5,050.00
5 ½ digits	7,900.00
6 ½ digits	10,150.00
Ohmmeter	
100mΩ to 100GΩ	900.00
per succeeding range	350.00
Ohmmeter (0-14 pH)	700.00
Puncture Tester	
1st range	950.00
per succeeding range	400.00
Puncture w/ Insulation Tester	
Up to 5Kv AC/DC, 2A AC/DC, and 100 MΩ	1,950.00
Resistance Box	
1st five points	550.00
per succeeding point	150.00
Rheostat	550.00
Stopwatch (15 minutes. minimum)	680.00



Standard Resistor	
by direct measurement	3,150.00
by ratio	4,250.00
Surface Resistance Checker	
1st range	850.00
per succeeding range	510.00
Tachometer	700.00
Ultrasonic Tester	1,600.00
Variable AC Transformer	700.00
Voltmeter, (1000V, AC/DC)	
1st range	700.00
per succeeding range	350.00
Tachometer	700.00
Wattmeter (AC 240V, 5A)	
1st range	1,800.00
per succeeding range	900.00
Wattmeter (DC 240V, 5A)	
1st range	1,845.00
per succeeding range	800.00
Wheatstone Bridge	3,350.00
Temperature	
Clinical Thermometer (-20 to 80°C)	1,700.00
Digital Thermometer, T/C	
1st range	1,800.00
per succeeding range	500.00
Digital Thermometer, Add'l Probe	1,800.00
Digital Thermometer, RTD	
1st range	1,800.00
per succeeding range	500.00
Glass/Filled/Bimetallic Thermometer	
-30 +120 °C (1st 5 points)	1,750.00
per additional point	500.00
0 to 100 °C (1st 5 points)	1,700.00
per additional point	500.00
0 to 200 °C (1st 5 points)	1,700.00
per additional point	500.00
0 to 350 °C (1st 5 points)	1,750.00
per additional point	500.00
50 to 600 °C (1st 5 points)	1,700.00
per additional point	500.00
Furnace	
50 to 500°C, single test point	2,100.00
per additional test point	500.00
500 to 1000°C, single test point	2,700.00
per additional test point	650.00



Oven/Freezer	
-30 to +500 °C, single test point	2,100.00
per additional test point	500.00
RTD Calibrator/Simulator	
1st range	2,100.00
RTD Probe/Wire, Industrial	
-30 to +500 °C (1st 5 points)	1,950.00
per additional test point	750.00
RTD Probe/Wire, Standard	
-30 to +500 °C (1st 10 points)	3,700.00
per additional test point	900.00
Surface Temperature Probe	
50 to 300 °C	1,400.00
Sling Psychourometer (bulb-type)	
0 to 50 °C	1,940.00
Temperature Controller (RTD, T/C)	1,800.00
Temperature Indicator (RTD,T/C)	1,800.00
Temperature Recorder (RTD,T/C)	
Single-point	
1st range	1,800.00
per succeeding range	450.00
Multi-point	
1st range	2,900.00
per succeeding range	650.00
Thermocouple Calibrator/Simulator	
1st range	2,200.00
per succeeding range	650.00
Thermocouple Probe/Wire	
-30 to +100 °C (1st 5 points)	1,750.00
per additional test point	500.00
0 to 100 °C (1st 5 points)	1,250.00
per additional test point	500.00
0 to 200 °C (1st 5 points)	1,450.00
per additional test point	500.00
0 to 300 °C (1st 5 points)	1,750.00
per additional test point	500.00
0 to 500 °C (1st 5 points)	1,850.00
per additional test point	500.00
50 to 1000 °C (1st 5 points)	2,000.00
per additional test point	500.00
Thermohygrograph	1,450.00
Electronic/Dial Thermohygrometer	1,550.00
Hygrograph	650.00
Electronic/Dial type hygrometer	700.00
Thermostat	750.00



Water Bath, -30 to +500 °C	
1st temperature setting	2,100.00
per additional temperature setting	550.00
PRESSURE	
Current to Pressure (I/P) Transducer	1,400.00
Pressure to Current (P/I) Transducer	1,400.00
Differential Transmitter (D/P Cell)	
Electronic	1,400.00
Pneumatic	1,300.00
Pressure Gauge	
Pneumatic, industrial grade	900.00
Hydraulic, industrial grade	900.00
Test Gauge	
Pneumatic	2,300.00
Hydraulic	2,300.00
Pneumatic Deadweight Pressure Tester	2,950.00
Measurement of Piston Diameter	700.00
Weighing of Deadweight (per piece)	250.00
Hydraulic Deadweight Pressure Tester	2,850.00
FORCE	
Electronic Balance	
500 g capacity and below	1,350.00
above 500 g capacity up to 100 kg	1,550.00
Gram Gauge	900.00
Push-Pull Gauge up to 100 kg	1,100.00
Rockwell Hardness Tester (per scale)	2,350.00
UTM	
for one range	3,700.00
for additional ranges	1,545.00
Torque Wrench	
single direction	1,300.00
dual direction	1,950.00
DIMENSIONAL MEASUREMENT	
Dimensional Inspection (per sample)	
Roundness Measurement	500.00
Surface Roughness Assessment	500.00
Straightness Measurement	500.00
Radius Gauge	500.00
Impact Specimen	500.00
G.I. Pipes	500.00
Machine Components/Equipment	
Parts/Instruments not included in the list	500.00
Roundness Measurement (conventional method)	800.00
Pneumatic Pressure Calibrator	
0 to 40 bar (1st range)	2,300.00
per succeeding range	1,300.00



Pneumatic Controller	1,000.00
Pneumatic Indicator	900.00
Pneumatic Recorder	1,000.00
Pneumatic Pressure Switch	900.00
Pressure Measuring Instrument (Barometer, Barograph, Electronics) (reg. 6 test points) 700hPa – 1040hPa	700.00
per succeeding test points	250.00
Mercurial Barometer (reg. 6 test points) 700hPa – 1040 hPa	850.00
per succeeding test points	300.00
Torque Meter single direction	1,950.00
dual direction	3,250.00
Triple Beam Balance	1,140.00
Non-Automatic Weighing Instruments Electronic Type 0-100 kg Performance Testing	1,550.00
Mechanical Type (up to 1 ton) Electronic Type up to 1 ton	1,550.00
additional fee in excess ton	70.00
Straightness Measurement (conventional method)	750.00
Dimensional Measurement using LASER per sample 0-300 mm range	2,150.00
Dimensional Measurement using CMM per hour.	500.00
Conventional measurement using V. caliper, Dial Gauge, O. micrometer, etc.	500.00
Vernier Caliper 0 - 150 mm range	850.00
0 - 250 mm range	1,225.00
above 150 - 200 mm range	950.00
above 200 - 300 mm range	1,225.00
above 300 - 600 mm range	1,300.00
above 600 - 1000 mm range	1,300.00
External Micrometer 0 - 25 mm range	700.00
above 25 - 100 mm range	800.00
above 100 - 150 mm range	1,000.00
above 150 - 200 mm range	1,250.00
above 200 - 250 mm range	1,600.00
above 250 - 300 mm range	1,800.00



Setting Rod calibration per piece	550.00
Tubular Micrometer calibration for Micrometer head only	1,500.00
Depth Micrometer	750.00
Feeler Gauge per leaf	300.00
Combination Set	
Centering Head	700.00
Protractor Head	1,000.00
Square Head	1,000.00
Steel Rule	650.00
Dial Gauge, Dial Thickness Gauge and Dial Test Indicators using calibration tester 0-20.0 mm range	850.00
Dial/Thickness Gauge with Non-Removable Handle 0-50 mm range	1,650.00
Height Master, 0-310mm, per column	2,700.00
Vernier and Digimatic Height Gauge 0 - 600 mm range	1,000.00
Gauge Block	
Grade 0 (per piece)	700.00
Grade 1 (per piece)	550.00
Grade 2 (per piece)	360.00
Deburring (per piece)	150.00
Rectangular Gauge Block	
Grade 0 (Steel)	1,160.00
Grade 1 (Steel)	1,030.00
Grade 2 (Steel)	1,030.00
Fixed Gauge (Plug/Go-No Go) per side	850.00
Pin Gauge (per piece)	300.00
Toolmakers Microscope	2,800.00
Optical Projector	2,800.00
Mu-Checker (for one range)	1,800.00
per additional setting range	850.00
Calibration Tester	2,300.00
Caliper Checker - 600 mm and below	2,900.00
Precision Check Master 600 mm and below	3,300.00
Precision Straight Edge 1000 mm and below	1,500.00
Granite Surface Plate	
Diagonal Length in mm:	
Over up to including 354mm	3,500.00
354mm to 566mm	3,600.00
566 mm to 891mm	4,000.00
891 mm to 1414mm	4,300.00



1414 mm to 2236mm	4,500.00
2236 mm to 2968mm	4,700.00
Dial Caliper Gauges	1,400.00
Machine Tools: (using LASER)	
Linear Positioning Error	
per axis/meter	3,600.00
Straightness Error per axis/meter	3,600.00
Squareness per axis/meter	7,200.00
Steel Rule	
0-300 mm	500.00
above 300-600 mm	650.00
above 600-1000 mm	900.00
above 1000-1500 mm	900.00
above 1500-2000 mm	900.00
Steel Rule (using LASER)	
0-1000 mm range	1,100.00
above 1000 – 1500 mm range	2,150.00
above 1500 – 2000 mm range	2,800.00
Glass Scale	
0-100 mm, max. 10 points	600.00
0-200 mm, max. 10 points	800.00
0-300 mm, max. 10 points	900.00
0-400 mm, max. 10 points	900.00
Dimensional Measurement using LASER per sample	
0-300 mm range	2,150.00
Dimensional Measurement using CMM per hour.	500.00
Conventional Measurement	500.00
Coordinate Measuring Machine	
Linear Error/Axis	4,300.00
Straightness of axis	4,300.00
Squareness of axis	4,300.00
Precision Square	
200 x 300 mm and smaller	1,550.00
Precision Square Master (using LASER)	2,900.00
Bevel Protractor	1,350.00
Precision Level per scale	1,200.00
Rockwell Hardness Tester (per scale)	2,350.00
UTM	
for one range	3,700.00
for additional ranges	1,545.00
Bore Gauge – 300 mm and below	1,900.00
Microindicators	1,650.00
Vernier Depth Gauge	1,200.00
Ball Bar Testing	2,500.00
Digimatic Indicator	1,650.00



Comparison of LASER using:	
UMM for x-axis only (combined)	3,900.00
Precision Square Master	4,900.00
MASSES	
NAWI, Electronic Type Only	
(On-site Calibration)	
up to 2kg	
(using OIML Class E2)	2,000.00
up to 60 kg	
(using OIML Class F1)	1,530.00
up to 200kg	
(using OIML Class F2)	1,530.00
up to 300kg	
(using OIML Class M1)	1,530.00
Snap Gauge/Snap Meter, 0-25mm	
0 – 25 mm	1,700.00
25 – 100mm	2,100.00
Carpenter Square	
Squareness	1,500.00
Linear Scale per leg	800.00
De-burring of other Small Tools	750.00
Caliper Type Inside Micrometer	1,650.00
Depth Micrometer	700.00
Tape Measure	
up to 10m	700.00
additional fee per meter	70.00
Digital Thickness Gauge	
(Non-removable)	1,650.00
Dial Gauges (>20mm)	1,650.00
NAWI, Electronic & Mechanical Types	
(Base Laboratory or On-site Calibration)	
High Accuracy II	
(using OIML Class F2)	1,200.00
Medium Accuracy II & Ordinary III	
(using OIML Class M1 and	
substitution material)	1,080.00
Add'l fee for every ton thereafter	
in excess of 1 ton	



III. In-plant Services

In-plant services conducted at customer's plant-site, covers the parameters on: Dimensional Metrology, Pressure, Torque, Force, Weight (Electronic Balances or Non-automatic weighing scale), Thermometry and Electrical Instruments, Hardness Test, Hydrostatic Test, Liquid Penetrant Testing (PT), Magnetic Particle Testing (MT), Ultrasonic Testing (UT), Coating Thickness, and Chemical Analysis using X-ray Fluorescence (XRF) Spectrometer. These services are provided for the metals, engineering and allied industries using MIRDC standards and testing equipment.

Office/Division:	Analysis and Testing Division	
Classification:	Highly Technical	
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government	
Who may avail:	All	
	CHECKLIST OF REQUIREMENTS	WHERE TO SECURE
	1.1 Quotation with Terms and Condition	Analysis and Testing Division Laboratory
	1.2 Purchase Order if applicable	Client/Industry requesting for in plant services
	1.3 Technical Service Request (TSR) form	MIRDC-Analysis and Testing Division Head Office (ATD-DHO) Centralized Receiving Area, Ground Floor, Gold Building
	1.4.a Complete sample description/specification, test and calibration requirements, and payment (cash or company dated check) 1.4.b For In-Plant Calibration service: Fifty (50)% (down payment) of the total charges is required	Client/Industry requesting for in plant services
	1.5 Provision of air-conditioned transportation (land/ sea/ air) of MIRDC personnel, materials and equipment necessary from MIRDC to the plant site and vice versa.	Client/Industry requesting for in plant services
	1.6 One (1) Authorization Letter (for person other than Company's representative)	Client/Industry requesting for in plant services
	1.7 One (1) Company ID and one (1) government issued ID	Company requesting for calibration
	1.8 For students: one (1) Letter of Request for Discount and School ID	School/University requesting for calibration



2. Claiming of Test/Calibration Certificates				
2.1. One (1) original or photocopy of issued Technical Service Request (TSR)		MIRDC-Analysis and Testing Division Head Office (ATD-DHO) Centralized Receiving Area, Ground Floor, Gold Building		
2.2 Payment (cash or company dated check) For In-plant calibration service: Fifty (50)% balance for full payment of the total charges		Client/Industry requesting for in plant services		
2.3 One (1) original or photocopy of issued Official Receipt/Confirmation Receipt, and Invoice (if applicable)		MIRDC-Finance and Admin Division, Cashier Office, Ground Floor, Gold Building		
2.4. One (1) Authorization Letter (for person other than Company's representative)		Client/Industry requesting for in plant services		
2.6. One (1) Company ID and one (1) government issued ID		Client/Industry requesting for in plant services		
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCES- SING TIME	AGENCY ACTION
1. Request for quotation for in-plant testing/calibration service via phone or email RFQs can be emailed to calibration@mirdc.dost.gov.ph; mirdc.metrologylab@gmail.com	1.1. Review the received request for quotation 1.2. Prepare quotation including Terms and Conditions	None	3 working days (Average time for all the signatories to sign the quotation)	For ALS Senior Science Research Specialist ALS (Physico-Chemical Laboratory) or Science Research Specialist II ALS (Corrosion Laboratory) For PLS Supervising Science Research Specialist PLS or



				<p><i>Senior Science Research Specialist</i> PLS (Non-destructive Testing Laboratory) or <i>Senior Science Research Specialist</i> PLS (Mechanical Metallurgy Laboratory) or <i>Science Research Specialist II</i> PLS (Auto-parts Testing Laboratory) <i>Senior Science Research Specialist</i> IMS (Officer in Charge) or <i>Senior Science Research Specialist</i> IMS (Metrology) or <i>Science Research Specialist II Chief Supervising Research Specialist</i> ATD or <i>Deputy Executive Director Technical Services</i> or</p>
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				<i>Executive Director MIRDC IMS (Instrumentation)</i>
2. Receive quotation via email.	2.1. Send the quotation electronically via email.	None	3 minutes	<i>Production Planning Control Officer I ATD-DHO or Administrative Assistant III ATD-DHO or Authorized Contract of Service Personnel ATD-DHO</i>
3. Proceed to ATD-DHO Centralized Receiving Area, and request for required in-plant service. Present Quotation, Purchase Order and other documents, if applicable	3.1. Evaluate the Quotation and Purchase Order 3.2 Generate two (2) Technical Service Request (TSR) forms using Unified Laboratory Information Management System (ULIMS) to be signed by the customer and the laboratory representative. For calibration, generate three (3) copies of TSR. Note: Schedule of in-plant service is set by the laboratory	None	15 minutes	<i>For ALS</i> <i>Senior Science Research Specialist ALS (Physico-Chemical Laboratory) or Science Research Specialist II ALS (Corrosion Laboratory)</i> <i>For PLS</i> <i>Supervising Science Research Specialist PLS or Senior Science Research Specialist</i>



<p>4. Sign all copies of Technical Service Request (TSR) Form generated by the receiving personnel</p>	<p>4.1 Review TSR, affix signature and give one (1) copy to customer that will serve as claim stub</p> <p>4.2 Update Google Monitoring Sheet</p>	<p>None</p>	<p>5 minutes</p>	<p>PLS (Non-destructive Testing Laboratory) or <i>Senior Science Research Specialist</i> PLS (Mechanical Metallurgy Laboratory) or For IMS <i>Senior Science Research Specialist</i> IMS (Officer in Charge) or <i>Senior Science Research Specialist</i> IMS (Metrology) or <i>Science Research Specialist II</i> IMS (Instrumentation)</p>
<p>5. Proceed to Cashier for payment and present the TSR.</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 7</p>	<p>5.1 Issue Order of Payment</p>	<p>See Table of Fees</p> <p>50% Down Payment Required for In-plant calibration service; Client may opt to pay in full.</p> <p>Refer to DOST AO No. 006</p>	<p>5 minutes</p>	<p><i>Administrative Officer IV</i> Financial Management Section or <i>Administrative Officer V</i> Financial Management Section</p>



		Series of 2018, prescribed calibration fees		
6. Wait for the issuance of Order of Payment and pay.	6.1 Accept and process payment based on the Order of Payment 6.2 Issue the Official Receipt	None	10 minutes	<i>Administrative Officer V</i> Administrative and General Services Section or <i>Administrative Officer II</i> Administrative and General Services Section
7. During the scheduled in-plant service, proceed to the concerned ATD Laboratory to pick-up the laboratory personnel Customer shall provide air-conditioned means of transportation (land/sea/air) of MIRDC personnel, materials and equipment from MIRDC to the calibration site and vice versa.	7.1 Secure all the testing/calibration standards and equipment on the vehicle provided by the customer.	None	5 minutes	<i>For ALS</i> <i>Senior Science Research Specialist ALS</i> or <i>Science Research Specialist II ALS</i> <i>For PLS</i> <i>Senior Science Research Specialist PLS (Non-destructive Testing Laboratory)</i> or <i>Senior Science Research Specialist PLS (Mechanical Metallurgy Laboratory)</i>



				<p>For IMS <i>Senior Science Research Specialist</i> IMS (Metrology) or <i>Science Research Specialist II</i> IMS (Instrumentation)</p>
8. Travel going to the plant-site	8.1 Travel going to the plant-site	None	<p>2 hours (estimated travel time if within NCR) Travel time varies on location of plant site.</p>	<p>For ALS <i>Senior Science Research Specialist</i> ALS or <i>Science Research Specialist II</i> ALS</p>
<p>9. Arrival at plant site location.</p> <p>The customer shall provide competent machine/ equipment operator to assist MIRDC personnel.</p> <p>The customer shall provide hotel accommodations (for overnight stay) to MIRDC personnel</p>	9.1 Conduct in-plant testing/calibration.	None	<p>5 hours (average time allotted per day upon arrival at plant site location)</p>	<p>For PLS <i>Senior Science Research Specialist</i> PLS (Non-destructive Testing Laboratory) or <i>Senior Science Research Specialist</i> PLS (Mechanical Metallurgy Laboratory)</p> <p>For IMS <i>Senior Science Research Specialist</i> IMS (Metrology) or</p>



				<i>Science Research Specialist II</i> IMS (Instrumentation)
10. Travel back to MIRDC	10.1 Travel back to MIRDC	None	2 hours (estimated travel time if within NCR)	For ALS <i>Senior Science Research Specialist ALS</i> or <i>Science Research Specialist II ALS</i>
	10.2 Secure all the testing/calibration standards and equipment back to the laboratory	None	5 minutes	For PLS <i>Senior Science Research Specialist PLS (Non-destructive Testing Laboratory)</i> or <i>Senior Science Research Specialist PLS (Mechanical Metallurgy Laboratory)</i>
				For IMS <i>Senior Science Research Specialist IMS (Metrology)</i> or <i>Science Research Specialist II IMS</i> (Instrumentation)



<p>11. Track the status of service requested at mirdc.dost.gov.ph/tracking/ using the issued TSR Reference Number.</p>	<p>11.1 Prepare Test/Calibration Report including computation and evaluation of measurement of uncertainty (MU) whenever applicable</p> <p>11.2 Prepare Test/Calibration Certificate including typing, signing and sealing</p>	<p>None</p>	<p>1 day</p>	<p>For ALS <i>Senior Science Research Specialist</i> ALS (Physico-Chemical Laboratory) or <i>Laboratory Inspector II</i> ALS (Physico-Chemical Laboratory) or <i>Science Research Specialist II</i> ALS (Corrosion Laboratory) or <i>Metals Technologist III</i> ALS (Corrosion Laboratory)</p> <p>For PLS <i>Supervising Science Research Specialist</i> PLS or <i>Senior Science Research Specialist</i> PLS (Non-destructive Testing Laboratory) or <i>Metals Technologist II</i> PLS (Non-destructive Testing Laboratory)</p>
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				<p>or <i>Senior Science Research Specialist</i> PLS (Mechanical Metallurgy Laboratory) or <i>Laboratory Inspector II</i> PLS (Mechanical Metallurgy Laboratory)</p> <p>For IMS <i>Senior Science Research Specialist</i> IMS (Officer in Charge) or <i>Senior Science Research Specialist</i> IMS (Metrology) or <i>Administrative Assistant I</i> ATD-DHO or <i>Science Research Specialist II</i> IMS (Instrumentation) or <i>Administrative Assistant I</i> ATD-DHO</p>
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<p>12. Return to MIRDC to claim the certificate/s,</p> <p>Proceed to ATD-DHO Releasing Area and present the customer's TSR, Official Receipt/Confirmation Receipt, Authorization Letter (if representative),</p>	<p>12.1 Check documents and advise customer to settle balance, if any.</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Production Planning Control Officer I</i> ATD-DHO or <i>Administrative Assistant III</i> ATD-DHO or <i>Authorized Contract of Service Personnel</i> ATD-DHO</p>
<p>13. Proceed to Cashier to settle the balance.</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp</p>	<p>13.1 Receive balance payment and issue the Official Receipt</p>	<p>See Table of Fees</p> <p>Refer to DOST AO No. 006 Series of 2018, prescribed calibration fees</p>	<p>15 minutes</p>	<p><i>Administrative Officer IV</i> Financial Management Section or <i>Administrative Officer V</i> Administrative and General Services Section</p>
<p>14. Return to ATD-DHO Releasing Area and present Official Receipt/Confirmation Receipt</p>	<p>14.1 Check Official Receipt/Confirmation Receipt and have the customer signed on the Pink Copy (Laboratory's Receiving copy) of Test/Calibration Certificate and give the original copy to customer</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Production Planning Control Officer I</i> ATD-DHO or <i>Administrative Assistant III</i> ATD-DHO or <i>Authorized Contract of Service Personnel</i> ATD-DHO</p>
<p>15. Sign the Pink Copy of the Certificates</p>	<p>15.1 Stamp TSR with "RELEASED" and return to customer together with the OR after the customer signs</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Authorized Contract of Service Personnel</i> ATD-DHO</p>



	the pink copy of the Certificates			
16. Customer fills out Customer/Client Satisfaction Survey Form	16.1 Let the customer fill out the Customer Satisfaction Survey Form 16.1 Collect and file the filled-out Customer/ Client Satisfaction Survey Form	None	5 minutes	
	TOTAL	5 days, 2 hours and 23 minutes		

SITUATION	ACTION	LOCATION OF ACTION	REMARKS
For multiple jobs or TSRs requests and complexity of the instruments evaluated and received within the day	Conduct of in-plant services will be on a scheduled basis depending on the availability of laboratory reference standard/equipment and laboratory personnel. However, additional days will be included depending on the quantity and complexity of all required parameters determined on-site.	Company Plant site/ On-site	Queueing system (First In First Out)
For complex samples not included in the Fees and Charges in the DOST Administrative Order No.006	The Client will be provided with Quotation approved by the Head of Agency or his Authorized Representative. The in-plant services will only commence upon approval/acceptance of the quotation and required payment	Analysis and Testing Division, Gold Building	Concerned Laboratories
For internal jobs (jobs requested by other Unit/Section/Division)	The same procedure applies from Job Acceptance to Releasing	ATD-DHO Centralized Receiving Area, Ground Floor, Gold Building	Laboratory testing/calibration fees are waived.



TABLE OF FEES

IN-PLANT TESTING SERVICES

Hardness Test	
Microdur, 5 Indentations	₱ 180/sample
Photo	₱ 80/sample
Grinding	₱ 85/sample
Hydrostatic Testing on Metallic Samples	Based on Quotation
Photo	₱ 80/sample
Magnetic Particle Testing Penetrant Testing	<p>₱ 2,000/day <i>(for 2 personnel, within Metro Manila)</i></p> <p>₱ 3,000/day <i>(for 2 personnel, outside Metro Manila)</i></p>
Ultrasonic Testing	<p>₱ 3,000/day <i>(for 2 personnel, within Metro Manila)</i></p> <p>₱ 3,600/day <i>(for 2 personnel, outside Metro Manila)</i></p>
Thickness Determination of Metallic Coatings on Various Base Metals (Magnetic Induction)	₱ 550/sample
Chemical Analysis using X-ray Fluorescence (XRF) Spectrometer	₱ 2,000/sample
Inplant Fee (for two personnel)	
Within Metro Manila	₱ 2,000
Outside Metro Manila	₱ 3,000



TABLE OF CALIBRATION FEES

(Per DOST Administrative Order No. 006, series of 2018 “Prescribe Calibration Fees for ITDI, MIRDC, PAG-ASA and Regional Metrology Laboratories (RMLs)”)

Type of Equipment/Device	Fees (Pesos)
ELECTRICAL	
AC Current Source/Standard up to 50A	2,650.00
per succeeding range	750.00
AC Voltage Source/Standard up to 1000V	 1,750.00
per succeeding range	550.00
Ammeter (AC,20 A) 1 to 2 ranges	 750.00
1 to 5 ranges	1,200.00
Ammeter (DC,2 A and below) 1 to 2 ranges	 700.00
1 to 5 ranges	1,150.00
Ammeter (DC,above 2 A) 1 to 2 ranges	 1,000.00
1 to 5 ranges	1,700.00
AC Clampmeter (up to 500A) up to 500A	 800.00
per succeeding range	300.00
Current Shunt, (AC, 10 A)	1,300.00
Current Shunt, (AC, 50 A)	1,650.00
Current Shunt, (DC, 10 A)	1,400.00
Current Shunt, (DC, 50 A)	1,700.00
DC Current Source/Standard Up to 50A	 2,100.00
per succeeding range	900.00
DC Voltage Source/Standard by direct measurement up to 1000V	 1,400.00
per succeeding range	650.00
by transfer method up to 1000V	 2,600.00
per succeeding range	1,100.00
DC Clampmeter up to 500A	 900.00
per succeeding range	350.00
Decade Resistance Box (per dial)	1,100.00



Double Bridge	
1st range	1,800.00
per succeeding range	1,100.00
Earth Tester	
1st range	1,350.00
per succeeding range	400.00
Electronic Load	
up to 20A	1,200.00
per succeeding range	800.00
Groundstrap Tester/Checker	
1st range	550.00
per succeeding range	330.00
High Voltage Meter (up to 10 kV)	
Up to 10 kV	2,000.00
per succeeding range	1,150.00
Insulation Tester (Megohmmeter)	
up to 1000V	1,050.00
per succeeding range	350.00
Megohmmeter	
up to 1000MΩ	1,090.00
per succeeding range	350.00
Kelvin Bridge	
up to 1MΩ	
per succeeding range	1,250.00
Millivolt Potentiometer	
Up to 100mV	1,850.00
per succeeding range	900.00
Multimeter, Analog	2,250.00
Multimeter, Digital,	
3 ½ digits	3,250.00
4 ½ digits	5,050.00
5 ½ digits	7,900.00
6 ½ digits	10,150.00
Ohmmeter	
100mΩ to 100GΩ	900.00
per succeeding range	350.00
Ohmmeter (0-14 pH)	700.00
Puncture Tester	
1st range	950.00
per succeeding range	400.00
Puncture w/ Insulation Tester	
Up to 5Kv AC/DC, 2A AC/DC, and 100 MΩ	1,950.00
Resistance Box	
1st five points	550.00
per succeeding point	150.00
	550.00



Rheostat	
Stopwatch (15 minutes. minimum)	680.00
Standard Resistor	
by direct measurement	3,150.00
by ratio	4,250.00
Surface Resistance Checker	
1st range	850.00
per succeeding range	510.00
Tachometer	700.00
Ultrasonic Tester	1,600.00
Variable AC Transformer	700.00
Voltmeter, (1000V, AC/DC)	
1st range	700.00
per succeeding range	350.00
Tachometer	700.00
Wattmeter (AC 240V, 5A)	
1st range	1,800.00
per succeeding range	900.00
Wattmeter (DC 240V, 5A)	
1st range	1,845.00
per succeeding range	800.00
Wheatstone Bridge	3,350.00
Temperature	
Clinical Thermometer (-20 to 80°C)	1,700.00
Digital Thermometer, T/C	
1st range	1,800.00
per succeeding range	500.00
Digital Thermometer, Add'l Probe	1,800.00
Digital Thermometer, RTD	
1st range	1,800.00
per succeeding range	500.00
Glass/Filled/Bimetallic Thermometer	
-30 +120 °C (1st 5 points)	1,750.00
per additional point	500.00
0 to 100 °C (1st 5 points)	1,700.00
per additional point	500.00
0 to 200 °C (1st 5 points)	1,700.00
per additional point	500.00
0 to 350 °C (1st 5 points)	1,750.00
per additional point	500.00
50 to 600 °C (1st 5 points)	1,700.00
per additional point	500.00
Furnace	
50 to 500°C, single test point	2,100.00
per additional test point	500.00
500 to 1000°C, single test point	2,700.00



per additional test point	650.00
Oven/Freezer	
-30 to +500 °C, single test point	2,100.00
per additional test point	500.00
RTD Calibrator/Simulator	
1st range	2,100.00
RTD Probe/Wire, Industrial	
-30 to +500 °C (1st 5 points)	1,950.00
per additional test point	750.00
RTD Probe/Wire, Standard	
-30 to +500 °C (1st 10 points)	3,700.00
per additional test point	900.00
Surface Temperature Probe	
50 to 300 °C	1,400.00
Sling Psychourometer (bulb-type)	
0 to 50 °C	1,940.00
Temperature Controller (RTD, T/C)	1,800.00
Temperature Indicator (RTD,T/C)	1,800.00
Temperature Recorder (RTD,T/C)	
Single-point	
1st range	1,800.00
per succeeding range	450.00
Multi-point	
1st range	2,900.00
per succeeding range	650.00
Thermocouple Calibrator/Simulator	
1st range	2,200.00
per succeeding range	650.00
Thermocouple Probe/Wire	
-30 to +100 °C (1st 5 points)	1,750.00
per additional test point	500.00
0 to 100 °C (1st 5 points)	1,250.00
per additional test point	500.00
0 to 200 °C (1st 5 points)	1,450.00
per additional test point	500.00
0 to 300 °C (1st 5 points)	1,750.00
per additional test point	500.00
0 to 500 °C (1st 5 points)	1,850.00
per additional test point	500.00
50 to 1000 °C (1st 5 points)	2,000.00
per additional test point	500.00
Thermohygrograph	1,450.00
Electronic/Dial Thermohyrometer	1,550.00
Hygrograph	650.00
Electronic/Dial type hygrometer	700.00
Thermostat	750.00
Water Bath, -30 to +500 °C	



1st temperature setting	2,100.00
per additional temperature setting	550.00
PRESSURE	
Current to Pressure (I/P) Transducer	1,400.00
Pressure to Current (P/I) Transducer	1,400.00
Differential Transmitter (D/P Cell)	
Electronic	1,400.00
Pneumatic	1,300.00
Pressure Gauge	
Pneumatic, industrial grade	900.00
Hydraulic, industrial grade	900.00
Test Gauge	
Pneumatic	2,300.00
Hydraulic	2,300.00
Pneumatic Deadweight Pressure Tester	2,950.00
Measurement of Piston Diameter	700.00
Weighing of Deadweight (per piece)	250.00
Hydraulic Deadweight Pressure Tester	2,850.00
FORCE	
Electronic Balance	
500 g capacity and below	1,350.00
above 500 g capacity up to 100 kg	1,550.00
Gram Gauge	900.00
Push-Pull Gauge up to 100 kg	1,100.00
Rockwell Hardness Tester (per scale)	2,350.00
UTM	
for one range	3,700.00
for additional ranges	1,545.00
Torque Wrench	
single direction	1,300.00
dual direction	1,950.00
DIMENSIONAL MEASUREMENT	
Dimensional Inspection (per sample)	
Roundness Measurement	500.00
Surface Roughness Assessment	500.00
Straightness Measurement	500.00
Radius Gauge	500.00
Impact Specimen	500.00
G.I. Pipes	500.00
Machine Components/Equipment	
Parts/Instruments not included in the list	500.00
Roundness Measurement (conventional method)	800.00
Pneumatic Pressure Calibrator	
0 to 40 bar (1st range)	2,300.00
per succeeding range	1,300.00



Pneumatic Controller	1,000.00
Pneumatic Indicator	900.00
Pneumatic Recorder	1,000.00
Pneumatic Pressure Switch	900.00
Pressure Measuring Instrument (Barometer, Barograph, Electronics) (reg. 6 test points) 700hPa – 1040hPa	700.00
per succeeding test points	250.00
Mercurial Barometer (reg. 6 test points) 700hPa – 1040 hPa	850.00
per succeeding test points	300.00
Torque Meter single direction	1,950.00
dual direction	3,250.00
Triple Beam Balance	1,140.00
Non-Automatic Weighing Instruments Electronic Type 0-100 kg Performance Testing	1,550.00
Mechanical Type (up to 1 ton) Electronic Type up to 1 ton	1,550.00
additional fee in excess ton	70.00
Straightness Measurement (conventional method)	750.00
Dimensional Measurement using LASER per sample 0-300 mm range	2,150.00
Dimensional Measurement using CMM per hour.	500.00
Conventional measurement using V. caliper, Dial Gauge, O. micrometer, etc.	500.00
Vernier Caliper 0 - 150 mm range	850.00
0 - 250 mm range	1,225.00
above 150 - 200 mm range	950.00
above 200 - 300 mm range	1,225.00
above 300 - 600 mm range	1,300.00
above 600 - 1000 mm range	1,300.00
External Micrometer 0 - 25 mm range	700.00
above 25 - 100 mm range	800.00
above 100 - 150 mm range	1,000.00
above 150 - 200 mm range	1,250.00
above 200 - 250 mm range	1,600.00
above 250 - 300 mm range	1,800.00



Setting Rod calibration per piece	550.00
Tubular Micrometer calibration for Micrometer head only	1,500.00
Depth Micrometer	750.00
Feeler Gauge per leaf	300.00
Combination Set	
Centering Head	700.00
Protractor Head	1,000.00
Square Head	1,000.00
Steel Rule	650.00
Dial Gauge, Dial Thickness Gauge and Dial Test Indicators using calibration tester 0-20.0 mm range	850.00
Dial/Thickness Gauge with Non-Removable Handle 0-50 mm range	1,650.00
Height Master, 0-310mm, per column	2,700.00
Vernier and Digimatic Height Gauge 0 - 600 mm range	1,000.00
Gauge Block	
Grade 0 (per piece)	700.00
Grade 1 (per piece)	550.00
Grade 2 (per piece)	360.00
Deburring (per piece)	150.00
Rectangular Gauge Block	
Grade 0 (Steel)	1,160.00
Grade 1 (Steel)	1,030.00
Grade 2 (Steel)	1,030.00
Fixed Gauge (Plug/Go-No Go) per side	850.00
Pin Gauge (per piece)	300.00
Toolmakers Microscope	2,800.00
Optical Projector	2,800.00
Mu-Checker (for one range)	1,800.00
per additional setting range	850.00
Calibration Tester	2,300.00
Caliper Checker - 600 mm and below	2,900.00
Precision Check Master 600 mm and below	3,300.00
Precision Straight Edge 1000 mm and below	1,500.00
Granite Surface Plate	
Diagonal Length in mm:	
Over up to including 354mm	3,500.00
354mm to 566mm	3,600.00
566 mm to 891mm	4,000.00
891 mm to 1414mm	4,300.00



1414 mm to 2236mm	4,500.00
2236 mm to 2968mm	4,700.00
Dial Caliper Gauges	1,400.00
Machine Tools: (using LASER)	
Linear Positioning Error	
per axis/meter	3,600.00
Straightness Error per axis/meter	3,600.00
Squareness per axis/meter	7,200.00
Steel Rule	
0-300 mm	500.00
above 300-600 mm	650.00
above 600-1000 mm	900.00
above 1000-1500 mm	900.00
above 1500-2000 mm	900.00
Steel Rule (using LASER)	
0-1000 mm range	1,100.00
above 1000 – 1500 mm range	2,150.00
above 1500 – 2000 mm range	2,800.00
Glass Scale	
0-100 mm, max. 10 points	600.00
0-200 mm, max. 10 points	800.00
0-300 mm, max. 10 points	900.00
0-400 mm, max. 10 points	900.00
Dimensional Measurement using LASER per sample	
0-300 mm range	2,150.00
Dimensional Measurement using CMM per hour.	500.00
Conventional Measurement	500.00
Coordinate Measuring Machine	
Linear Error/Axis	4,300.00
Straightness of axis	4,300.00
Squareness of axis	4,300.00
Precision Square	
200 x 300 mm and smaller	1,550.00
Precision Square Master (using LASER)	2,900.00
Bevel Protractor	1,350.00
Precision Level per scale	1,200.00
Rockwell Hardness Tester (per scale)	2,350.00
UTM	
for one range	3,700.00
for additional ranges	1,545.00
Bore Gauge – 300 mm and below	1,900.00
Microindicators	1,650.00
Vernier Depth Gauge	1,200.00
Ball Bar Testing	2,500.00
Digimatic Indicator	1,650.00



Comparison of LASER using:	
UMM for x-axis only (combined)	3,900.00
Precision Square Master	4,900.00
MASSES	
NAWI, Electronic Type Only	
(On-site Calibration)	
up to 2kg	
(using OIML Class E2)	2,000.00
up to 60 kg	
(using OIML Class F1)	1,530.00
up to 200kg	
(using OIML Class F2)	1,530.00
up to 300kg	
(using OIML Class M1)	1,530.00
Snap Gauge/Snap Meter, 0-25mm	
0 – 25 mm	1,700.00
25 – 100mm	2,100.00
Carpenter Square	
Squareness	1,500.00
Linear Scale per leg	800.00
De-burring of other Small Tools	750.00
Caliper Type Inside Micrometer	1,650.00
Depth Micrometer	700.00
Tape Measure	
up to 10m	700.00
additional fee per meter	70.00
Digital Thickness Gauge	
(Non-removable)	1,650.00
Dial Gauges (>20mm)	1,650.00
NAWI, Electronic & Mechanical Types	
(Base Laboratory or On-site Calibration)	
High Accuracy II	
(using OIML Class F2)	1,200.00
Medium Accuracy II & Ordinary III	
(using OIML Class M1 and	
substitution material)	1,080.00
Add'l fee for every ton thereafter	
in excess of 1 ton	
In-Plant Charge	
Within Metro Manila	Php 2,000.00 per Team
Outside Metro Manila	Php 3,000.00 per Team



FINANCE AND ADMINISTRATIVE DIVISION

External Services



I. Employee Records Requisition and Verification

Requests for copies and/or verification of employee records/ employment.

Office/Division:	Finance and Administrative Division			
Classification:	Simple			
Type of Transaction:	G2G - Government to Government G2C - Government to Citizen G2B - Government to Business Entity			
Who may avail:	External clients			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
If internal employee				
Filled our FAD-AGSS and Central Records Office (CRO) Requisition Slip			PAU, Administrative and General Services Section (AGSS)	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
For employee records requisition				
1. Submit duly filled out Requisition Slip	1.1 Stamp date received and identified type of request made.	None	10 minutes	<i>Administrative Aide III</i> FAD-AGSS, CRO
	1.2 Inform requesting party of document release date.		10 minutes	
	1.3 Prepare requested document. (Refer to table 1.0 for list of documents and processing time)		5 days	
	1.4 Release requested document.			
2. Receive requested document and fills out Customer/Client Satisfaction Survey Form	2.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form and put in drop box.	None	5 minutes	<i>Administrative Aide III</i> FAD-AGSS, CRO
	2.2 End of transaction			
		TOTAL	5 days and 25 minutes	



PROCESSING TIME			
TYPE OF DOCUMENTS	FEEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
a. Certificate of Employment (COE)	None	2 days	<i>Administrative Officer V</i> FAD-AGSS, PAU
b. Certificate of Employment and Compensation (COEC)	None	2 days	or
c. Certificate of COC earned	None	3 days	<i>Administrative Officer II</i> FAD-AGSS, PAU
d. Certified of no pending admin case/obligations	None	2 days	or
e. Certificate of leave credits earned	None	3 days	<i>Administrative Aide III</i> FAD-AGSS CRO
f. Service record	None	2 days	
g. Statement of actual duties and responsibilities	None	3 days	
h. Clearance certificate (Certified copy only)	None	1 day	
i. Copy of payslip	None	2 hours	
j. Other documents in 201 file (photocopy only)	None	2 hours	
k. Employment record verification	None	4 days	<i>Administrative Officer V</i> FAD-AGSS, PAU
SITUATION	ACTION	LOCATION OF ACTION	REMARKS
For external clients where requested documents need verification prior to release	Inform requesting party of the situation and proceed with document verification	FAD-AGSS, PAU	5 days processing time



FINANCE AND ADMINISTRATIVE DIVISION

Internal Services



I. Employee Records Requisition and Verification

Requests for copies and/or verification of employee records/ employment.

Office/Division:	Finance and Administrative Division			
Classification:	Simple			
Type of Transaction:	G2G - Government to Government			
Who may avail:	Internal clients			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
If internal employee				
Filled our FAD-AGSS and Central Records Office (CRO) Requisition Slip			PAU, Administrative and General Services Section (AGSS)	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
For employee records requisition				
1. Submit duly filled out Requisition Slip	1.1 Stamp date received and identified type of request made.	None	10 minutes	<i>Administrative Assistant III</i> FAD-AGSS, CRO
	1.2 Inform requesting party of document release date.		10 minutes	
	1.3 Prepare requested document. (Refer to table 1.0 for list of documents and processing time)		3 days	
1.4 Release requested document.				
2. Receive requested document and fills out Customer/Client Satisfaction Form	2.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form.	None	5 minutes	<i>Administrative Assistant III</i> FAD-AGSS, CRO
	2.2 End of transaction			
		TOTAL	3 days and 25 minutes	



PROCESSING TIME			
TYPE OF DOCUMENTS	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
a. Certificate of Employment (COE)	None	2 days	<i>Administrative Officer V</i> FAD-AGSS, PAU
b. Certificate of Employment and Compensation (COEC)	None	2 days	or
c. Certificate of COC earned	None	3 days	<i>Administrative Officer II</i> FAD-AGSS, PAU
d. Certified of no pending admin case/obligations	None	2 days	or
e. Certificate of leave credits earned	None	3 days	<i>Administrative Aide III</i> FAD-AGSS CRO
f. Service record	None	2 days	
g. Statement of actual duties and responsibilities	None	3 days	
h. Clearance certificate (Certified copy only)	None	1 day	
i. Copy of payslip	None	2 hours	
j. Other documents in 201 file (photocopy only)	None	2 hours	
k. Employment record verification	None	4 days	

SITUATION	ACTION	LOCATION OF ACTION	REMARKS
For external clients where requested documents need verification prior to release	Inform requesting party of the situation and proceed with document verification	FAD-AGSS, PAU	5 days processing time



II. General Services

Provide general services such as but not limited to carpentry, plumbing, electrical, telephone line and air-conditioning unit repairs.

Office/Division:	Finance and Administrative Division			
Classification:	Complex			
Type of Transaction:	G2G - Government to Government			
Who may avail:	MIRDC Employees / Personnel			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
Request for Maintenance			General Maintenance Unit (GMU)	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Fill-up the Request for Maintenance form (GMU 001)	1.1 Receive report / request	None	3 minutes	<i>Engineer III</i> or <i>Engineer II</i> or <i>Admin. Aide VI</i> FAD-GMU
	1.2 Determine type / classification of request (carpentry, plumbing, electrical, ACU, telephone line, etc.) and identify person responsible	None	5 minutes	<i>Engineer III</i> or <i>Engineer II</i> or <i>Admin. Aide VI</i> FAD-GMU
	1.3 Prepare and generate Work Order through the Computerized Maintenance Management System (CMMS)	None	5 minutes	<i>Admin. Aide VI,</i> FAD-GMU
	1.4 Facilitate signature of	None	15 minutes	<i>Admin. Aide VI</i> FAD-GMU



	<p>authorized signatories</p> <p>Computerized Maintenance Management System (CMMS)</p> <p>1.5 Issue Work Order to person responsible</p> <p>1.6 Conduct initial assessment of the work requested and, if repairable, determine materials needed. If not repairable, inform requester.</p> <p>1.7 Check availability of materials needed for the work requested. If materials are not available, inform requesting party to prepare Purchase Request.</p>	<p>None</p> <p>None</p> <p>None</p>	<p>5 minutes</p> <p>30 minutes</p> <p>15 minutes</p>	<p><i>Admin. Aide VI</i> FAD-GMU</p> <p><i>Engineer III</i> or <i>Engineer II</i> FAD-GMU</p> <p><i>Engineer III</i> or <i>Engineer II</i> FAD-GMU</p>
2. Inform delivery of materials needed	<p>2.1 Receive and check appropriateness and/or completeness of materials.</p> <p>2.2 Execute work request.</p>	<p>None</p> <p>None</p>	<p>15 minutes</p> <p>Time will depend on the type and scope of work.</p>	<p><i>Engineer III</i> or <i>Engineer II</i> FAD-GMU</p> <p><i>Admin. Aide VI</i> or <i>Admin. Aide III</i> or <i>Admin. Aide VI</i></p>



	2.3 Once work is completed, indicate work details done in the Work Order and forward the same to requesting party for signature.	None	10 minutes	<p>or Admin. Asst. IV FAD-GMU</p> <p>Admin. Aide VI F or Admin. Aide III or Admin. Aide VI or Admin. Asst. IV FAD-GMU</p>
3. Acknowledge the work done by signing at the "conforme" portion of the Work Order and submit the same to the GMU.	3. Received the acknowledged Work Order and record details in the CMM.	None	20 minutes	Admin. Aide VI, FAD-GMU
4. Customer fills out Customer/Client Satisfaction Survey Form.	4. Collect and file the filled-out Customer/ Client Satisfaction Survey Form	None	5 minutes	Admin. Aide VI, FAD-GMU
	TOTAL	2 hours and 18 minutes (excluding the execution of work requested)		



III. Purchasing of Supplies and Materials

Procurement of requested supplies and materials including equipment using alternative mode of procurement.

Office/Division:	Finance and Administrative Division			
Classification:	Simple and Highly Technical			
Type of Transaction:	G2G - Government to Government			
Who may avail:	MIRDC Employees / Personnel including project personnel			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
For Requisition of Items				
Approved PPMP uploaded to the Purchase and Property Management System (PPMS)			End-user	
Approved Purchase Request (PR)			End-user	
For purchasing of Items				
Signed Abstract of Canvass (AOC) Approved Purchase Order (PO)			Supply Management Unit (SMU)	
Receive PO deliveries			Property Management Unit (PMU)	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
Locally available items				
1. Prepare the Purchase Request and submit the approved PR to FAD-AGSS-SMU	1.1 Receive approved PR from End-user	None	2 minutes	<i>Administrative Officer I, FAD-SMU</i>
	1.2 Assign PR to designated buyer	None	5 minutes	<i>Administrative Officer V, FAD-SMU</i>
	1.3 Check the required specification of each item and necessary attachments in the PR	None	5 minutes	<i>Administrative Officer I, FAD-SMU or Senior Admin. Assistant I, FAD-SMU or Administrative Officer III, FAD-SMU or Administrative Officer III, FAD-SMU or Administrative Officer V, FAD-SMU</i>



	1.4 Stamp received, assign control number, record in the logbook, and enter control number in the PPMS	None	4 minutes	<i>Administrative Officer I, FAD-SMU</i>
	1.5 Prepare and send request for quotation to potential suppliers	None	13 minutes	<i>Administrative Officer I, FAD-SMU</i> or <i>Senior Admin. Assistant I, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>
	1.6 If the approved total budget is 50,000 and above, Post notices to the following: a) PhilGEPS b) MIRDC website and Social Media account through MIS c) Conspicuous place in MIRDC through CRO	None	27 minutes	<i>Administrative Officer I, FAD-SMU</i> or <i>Senior Admin. Assistant I, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>
	1.7 PhilGEPS lead time from posting to closing date.	None	5 days	<i>Administrative Officer I, FAD-SMU</i> or



				<i>Senior Admin. Assistant I, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>
	1.8 Follow-up, gather and review quotations from suppliers	None	3 days	<i>Administrative Officer I, FAD-SMU</i> or <i>Senior Admin. Assistant I, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i>
	1.9 Prepare Petty Cash Voucher (PCV) and receive cash from Special Disbursing Officer (For Regular Purchases only)	None	2 days	<i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>
	1.10 Prepare Request for Vehicle, schedule pick-up of the items and forward purchased items to End-user (For Regular Purchases only)	None	3 days	<i>Administrative Officer I, FAD-SMU</i> or <i>Senior Admin. Assistant I, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>



	1.11 Prepare AOC	None	14 minutes	<i>Administrative Officer I, FAD-SMU</i> or <i>Senior Admin. Assistant I, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>
	1.12 Forward AOC to end-user for evaluation	None	8 minutes	<i>Administrative Officer I, FAD-SMU</i> or <i>Senior Admin. Assistant I, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>
2. Evaluate AOC and return to FAD-AGSS-SMU	2.1 Receive evaluated AOC from end-user	None	2 days	<i>Administrative Officer I, FAD-SMU</i> or <i>Senior Admin. Assistant I, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>



	2.2 Route AOC to Bid and Awards Committee (BAC) members for signature	None	3 days	<i>Administrative Officer I, FAD-SMU</i>
	2.3 Prepare Purchase Order (PO) and assign PO number	None	14 minutes	<i>Administrative Officer I, FAD-SMU</i>
	2.4 Forward PO to Financial Management Section (FMS) for signature of signing authorities as to funds availability and approval of purchase	None	3 days	<i>Administrative Officer I, FAD-SMU</i>
	2.5 Receive approved PO from FMS and forward to designated buyer	None	2 minutes	<i>Administrative Officer I, FAD-SMU</i>
	2.6 Send approved PO to supplier and wait for conformed PO	None	2 days	<i>Administrative Officer I, FAD-SMU</i> or <i>Senior Admin. Assistant I, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>
	2.7 Print and prepare attachments of Conformed PO	None	9 minutes	<i>Administrative Officer I, FAD-SMU</i> or <i>Senior Admin. Assistant I, FAD-SMU</i> or



	and forward to PMU			<i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>
3. Receive the requested items and return the signed DV, IAR and IRS to PMU	3.1 Receive conformed PO and await for deliveries	None	5 days	<i>Administrative Officer I, FAD-PMU</i> or <i>Administrative Officer III, FAD-PMU</i> or <i>Administrative Officer V, FAD-PMU</i>
	3.2 Receive/ Accept deliveries	None	30 minutes	<i>Administrative Officer I, FAD-PMU</i> or <i>Administrative Officer III, FAD-PMU</i> or <i>Administrative Officer V, FAD-PMU</i>
	3.3 Inform end-user for inspection and receipt of requested items	None	1 day	<i>Administrative Officer I, FAD-PMU</i> or <i>Administrative Officer III, FAD-PMU</i> or <i>Administrative Officer V, FAD-PMU</i>
	3.4 Prepare and facilitate signing of IAR, RIS and DV. When applicable, prepare also Property Acknowledgment Receipt (PAR) / Inventory Custodian Slip (ICS)	None	2 days	<i>Administrative Officer I, FAD-PMU</i> or <i>Administrative Officer III, FAD-PMU</i> or <i>Administrative Officer V, FAD-PMU</i> and End-user



4. Customer fills out Customer/Client Satisfaction Survey Form	4. Collect and file the filled-out Customer/Client Satisfaction Survey Form and submit to PMD.	None	5 minutes	<i>Administrative Officer I, FAD-SMU</i> or <i>Senior Admin. Assistant I, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer III, FAD-SMU</i> or <i>Administrative Officer V, FAD-SMU</i>
End of Transaction				

TOTAL PROCESSING TIME		
CLASSIFICATION	FEES TO BE PAID	PROCESSING TIME
Regular Items (Agency action from 1.1 to 1.5 and 1.8 to 1.10 only)	None	8 days and 29 minutes
Other local items below 50,000 (excluding agency action 1.6, 1.7, 1.9, 1.10 and 3.4)	None	18 days, 1 hour and 51 minutes
Other local items 50,000 and above (excluding agency action 1.9, 1.10 and 3.4)	None	24 days, 2 hours and 18 minutes
Non-regular items according to terms and condition (excluding agency action 1.9, 1.10 and 3.4, and delivery terms is more or less 5 days as specified in the PO)	None	22 days and more according to terms and conditions specified in the PO

- Process covered by RA 9184



IV. Recruitment, Selection and Placement

Screening and selection of applicants to fill in the vacant position.

Office/Division:	Finance and Administrative Division			
Classification:	Complex			
Type of Transaction:	G2G - Government to Government			
Who may avail:	End-user of the vacant position			
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE		
If end-user				
Request for Employee (RFE) Technical Competency Requirements Actual Duties and Responsibilities All signed by the Executive Director		FAD-AGSS, PAU (Personnel Administrative Unit)		
If recruit is the qualified next-in-rank employees				
2018 MIRDC Application Form		FAD-AGSS, PAU email at fad-agss@mirdc.dost.gov.ph		
If the recruit is a disinterested qualified next-in-rank employees				
Filled-out waiver of disinterest		FAD-AGSS, PAU		
If recruit has undergone the process of selection				
Completed Competency Rating Sheet Form		End-user/immediate supervisor		
If applicant refuses to undergo the examination or withdrew their application				
Signed Waiver or letter/notice of intent to withdraw application		Applicant		
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
For Positions below Salary Grade 22				
1. Submit duly approved RFE	1.1 Review appropriateness of the qualification stated in the RFE based on the CSC qualification standard	None	10 minutes	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	1.2 Post vacant position not limited to:	None	11 days	<i>Administrative Officer II or</i>



	a) CSC website b) MIRDC website c) MIRDC Bulletin Boards			<i>Administrative Officer V, FAD-AGSS, PAU</i>
	1.3 Check the completeness, authenticity of documents submitted and qualifications of the applicant against the position applied for.	None	5 minutes	<i>Administrative Officer II, or Administrative Officer V, FAD-AGSS, PAU</i>
	1.4 Arrange schedule of applicant's interview and/or skills examination and send invitation through e-mail.	None	1 hour	<i>Administrative Officer II, or Administrative Officer V, FAD-AGSS, PAU</i>
	1.5 Facilitate interview with all interviewers and applicants.	None	20 days	<i>Administrative Officer II, FAD-AGSS, PAU</i>
2. Submit completed competency rating sheet and together with applicant's documents.	2.1 Receive and check completeness of ratings.	None	5 minutes	<i>Administrative Officer II, FAD-AGSS, PAU</i>
	2.2 Conduct examinations to applicants.	None	6 days	<i>Administrative Officer V, or Administrative Officer II, FAD-AGSS, PAU</i>
	2.3 Conduct background investigation of applicants.	None	4 days	<i>Administrative Officer II, FAD-AGSS, PAU</i>
	2.4 Arrange schedule of Human Resource Management and Personnel Selection Board (HRMPSB) deliberation, and prepare and	None	4 hours	<i>Administrative Officer II, FAD-AGSS, PAU</i>



	disseminate notice of meeting.			
	2.5 Consolidate, summarize and prepare deliberation documents	None	2 hours	<i>Administrative Officer II, FAD-AGSS, PAU</i>
	2.6 Facilitate the conduct of deliberation process	None	4 hours	<i>Administrative Officer II, or Administrative Officer V, FAD-AGSS, PAU</i>
	2.7 Prepare HRMPSB Resolution	None	2 hours	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.8 Prepare minutes of deliberation process	None	1 hour	<i>Administrative Officer II or Administrative Officer V, FAD-AGSS, PAU</i>
	2.9 Route HRMPSB resolution for signature of members	None	7 days	
	2.10 Forward signed HRMPSB Resolution to Executive Director for selection and approval of appointee	None	2 days	
	2.11 Prepare letter to applicants on the result of application for signing of HRMPSB Chairperson	None	20 minutes	<i>Administrative Officer V or Administrative Officer II, FAD-AGSS, PAU</i>
	2.12 Release signed letter to applicants	None	3 days	<i>Administrative Aide III FAD-AGSS, CRO</i>
	2.13 Inform selected applicants on the pre-appointment requirements	None	20 minutes	<i>Administrative Officer V, FAD-AGSS, PAU</i>



	<p>2.14 Check the completeness of requirements submitted by selected applicants</p> <p>2.15 Prepare the following:</p> <p>a) Appointment paper</p> <p>b) Position Description Form</p>	<p>None</p> <p>None</p>	<p>10 minutes</p> <p>3 minutes</p> <p>1 day</p>	
	<p>2.16 Facilitate the signing of appointment by the highest HRM Officer, the PSB Chair and the Executive Director</p> <p>2.17 Issue Appointment to new appointee and ask date of assumption</p>	<p>None</p> <p>None</p>	<p>3 days</p> <p>5 minutes</p>	<p><i>Administrative Officer V, FAD-AGSS, PAU</i></p>
	<p>2.18 Prepare and post a notice announcing the appointment of the newly hired/promoted employee</p>	<p>None</p>	<p>20 minutes</p>	<p><i>Administrative Officer V, FAD-AGSS, PAU and Administrative Aide III, FAD-AGSS, CRO</i></p>
	<p>2.19 Prepare memorandum on the assumption of new appointee and schedule Oath taking</p> <p>2.20 Facilitate the Oath taking</p> <p>2.21 Coordinate onboarding/</p>	<p>None</p> <p>None</p> <p>None</p>	<p>20 minutes</p> <p>2 hours</p> <p>5 minutes</p>	<p><i>Administrative Officer V, FAD-AGSS, PAU</i></p>



	orientation of new appointee			
3. Employee Assumes Office	3.1 Facilitate the conduct of onboarding/ orientation	None	4 hours	<i>Administrative Officer V, FAD-AGSS, PAU</i>
4. End-user fills out Customer/Client Satisfaction Survey Form	4.1 Collect and file the filled-out Customer/ Client Satisfaction Form 4.2 End of transaction.	None	5 minutes	<i>Administrative Officer V, FAD-AGSS, PAU</i>
TOTAL			59 days, 6 hours and 8 minutes	

For Positions above Salary Grade 22				
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Submit duly approved RFE	1.1 Review appropriateness of the qualification stated in the RFE based on the CSC qualification standard	None	10 minutes	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	1.2 Post vacant position not limited to: a) CSC website b) MIRDC website c) MIRDC Bulletin Boards	None	11 days	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	1.3 Receive and check the completeness, authenticity of documents submitted and qualifications of	None	5 minutes	<i>Administrative Officer V, FAD-AGSS, PAU</i>



	the applicant against the position applied for.			
	1.4 Arrange schedule of applicants interview and/or skills assessments.	None	1 hour	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	1.5 Facilitate individual and panel interviews and/or skills assessment with all interviewers and applicants.	None	20 days	<i>Administrative Officer V, FAD-AGSS, PAU</i>
2. Submit completed competency rating sheet and together with applicants documents	2.1 Receive and check completeness of ratings	None	20 minutes	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.2 Schedule and inform applicants for examinations to be conducted by external provider.	None	2 hours	
	2.3 Conduct background investigation of applicants.	None	4 days	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.4 Arrange schedule of Human Resource Management and Personnel Selection Board (HRMPSB) deliberation, prepare and disseminate notice of meeting.	None	3 hours	<i>Administrative Officer V, FAD-AGSS, PAU</i>



	2.5 Consolidate, summarize and prepare deliberation documents.	None	2 hours	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.6 Facilitate the conduct of deliberation process.	None	4 days	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.7 Prepare HRMPSB Resolution.	None	2 hours	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.8 Prepare minutes of deliberation process.	None	1 hour	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.9 Route HRMPSB resolution for signature of members.	None	7 days	<i>Administrative Aide III FAD-AGSS, CRO</i>
	2.10 Forward signed HRMPSB Resolution to Executive Director for selection and approval of appointee	None	2 days	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.11 Prepare letter to applicants on the result of application for signing of HRMPSB Chairperson.	None	5 minutes	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.12 Release signed letter to applicants.	None	3 days	<i>Administrative Aide III FAD-AGSS, CRO</i>



	<p>2.13 Inform selected applicants on the pre-appointment requirement.</p>	None	20 minutes	<p><i>Administrative Officer V, FAD-AGSS, PAU</i></p>
	<p>2.14 Check the completeness of requirements submitted by selected applicants.</p>	None	10 minutes	<p><i>Administrative Officer V, FAD-AGSS, PAU</i></p>
	<p>2.15 Prepare the following: a) Appointment paper b) Position Description Form</p>	None	<p>5 minutes 1 day</p>	<p><i>Administrative Officer V, FAD-AGSS, PAU</i></p>
	<p>2.16 Facilitate the signing of appointment by the highest HRM Officer, the HRMPSB Chair and the Executive Director.</p>	None	3 days	<p><i>Administrative Officer V, FAD-AGSS, PAU</i></p>
	<p>2.17 Issue Appointment to new appointee and ask date of assumption</p>	None	5 minutes	<p><i>Administrative Officer V, FAD-AGSS, PAU</i></p>
	<p>2.18 Prepare and post a notice announcing the appointment of the newly hired/promoted employee.</p>	None	20 minutes	<p><i>Administrative Officer V, FAD-AGSS, PAU and Administrative Aide III FAD-AGSS, CRO</i></p>



	2.19 Prepare memorandum on the assumption of new appointee and schedule Oath taking.	None	15 minutes	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.20 Facilitate the Oath taking.	None	2 hours	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	2.21 Coordinate onboarding/ orientation of new appointee.	None	5 minutes	<i>Administrative Officer V, FAD-AGSS, PAU</i>
3. Employee assumes office.	3.1 Facilitate the conduct of onboarding/ orientation.	None	4 hours	<i>Administrative Officer V, FAD-AGSS, PAU</i>
4. End-user fills out Customer/Client Satisfaction Survey Form	4.1 Collect and file the filled-out Customer/Client Satisfaction Form 4.2 End of Transaction	None	5 minutes	<i>Administrative Officer V, FAD-AGSS, PAU</i>
	TOTAL		57 days, 3 hour and 5 minutes	

**Prescribed period for the publication and posting of vacancies are covered under the revised 2018 Omnibus Rules of Appointment and Other Human Resource Actions (ORAOHRA) and RA 7041.*



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
If there were no applicants or the Executive Director/End-User requested for more applicants	Repost vacancies for additional applicants and accept additional applicants	FAD-AGSS, PAU	The 11 days posting will still have to be complied
If the interviewer becomes unavailable to interview the applicant on the scheduled date of interview	Re-schedule the interview	FAD-AGSS, PAU	Subject to availability of the interviewer and the interviewee (additional no. of days will be added to agency action item 1.4 and 1.5)
If the members of the HRMPSB are on official business or is unable to sign the HRMPSB Resolution for one reason or another.	The Resolution is endorsed to the other members of the HRMPSB until all the members have signed the Resolution.		The Resolution will be put on hold until all the members have signed the document (Additional number of days will be added to agency action item no. 2.9)



V. Transportation Services

Deliver passenger to destinations.

Office/ Division:	Finance and Administrative Division			
Classification:	Complex			
Type of Transaction:	G2G - Government to Government			
Who may avail:	MIRDC Employees / Personnel			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
Approved Request for Vehicle (GMU 002)			General Maintenance Unit	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Submit approved Request for Vehicle	1.1 Receive and check completeness of the travel data	None	10 minutes	<i>Admin. Aide VI, FAD-GMU</i>
	1.2 Determine destination and availability of vehicle and driver	None	5 minutes	<i>Admin. Aide VI, FAD-GMU</i>
	1.3 Fill up and approve the Request for Vehicle and trip ticket form and attach the Vehicle Pre-Trip Safety checks and Customer /Client Satisfaction Survey form	None	5 minutes	<i>Engineer III, FAD-GMU and Admin. Aide VI, FAD-GMU</i>
	1.4 Assign and instruct driver for schedule of travel	None	5 minutes	<i>Admin. Aide VI, FAD-GMU</i>



	<p>1.5 Fill-out Request for Fuel (GMU 017) and submit to assigned GMU Engineer for the release of payment for fuel</p> <p>1.6 Refuel at the accredited gasoline station along the way to destination</p> <p>1.7 Provide transportation services to the requesting party</p> <p>1.8 Fill-out Trip Ticket form (GMU 003) for signature of passenger/s</p>	<p>None</p> <p>None</p>	<p>3 minutes</p> <p>Time will depend on the destination</p>	<p><i>Admin. Aide VI</i> FAD-GMU <i>and</i> <i>Engineer II</i> FAD-GMU</p> <p><i>Admin. Aide IV</i> FAD-GMU <i>or</i> <i>Admin. Aide IV</i> FAD-GMU <i>or</i> <i>Admin. Aide IV</i> FAD-GMU <i>or</i> <i>Admin. Aide III</i> FAD-GMU</p>
2. Sign Trip Ticket Form	2.1 File signed Trip Ticket form and fill-out dispatching report.	None	5 minutes	<p><i>Admin. Aide VI</i> FAD-GMU</p> <p><i>Admin. Aide IV</i> FAD-GMU <i>or</i> <i>Admin. Aide IV</i> FAD-GMU <i>or</i> <i>Admin. Aide IV</i> FAD-GMU <i>or</i> <i>Admin. Aide III</i> FAD-GMU</p>
3. Customer fills out Customer/Client Satisfaction Survey Form.	3. Collect and file the filled-out Customer/ Client Satisfaction Survey Form	None	5 minutes	<i>Admin. Aide VI</i> FAD-GMU
		TOTAL	38 minutes (excluding travel time)	



MATERIALS AND PROCESS RESEARCH DIVISION

External Services



I. Additive Manufacturing Services

Brief Description of the Service: 3D printing of objects using various materials and 3d printing technologies.

Office/Division:	Materials and Process Research Division	
Classification:	Highly Technical	
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government	
Who may avail:	All	
	CHECKLIST OF REQUIREMENTS	WHERE TO SECURE
1. Submission of files		
1.1 3D file specifications <ul style="list-style-type: none"> 1.1.1 3D model with maximum dimensions of: <ul style="list-style-type: none"> - 500mmx500mmx2000mm - 330mmx240mmx300mm - 305mmx305mmx406mm - 400mmx300mmX250mm - 1100mmx850mmx620mm - 6000mmx2400mmx2400mm - 590mmx760mmx700mm - 250mm x 250mm x 300mm - 145mm x 145mm x 175mm 1.1.2 3D files should be in STL, OBJ, 3MF, AMF format 1.1.3 Detailed fabrication drawing 		Company/Industry/Individual requesting for printing
1.2 Following information, if available <ul style="list-style-type: none"> 1.2.1 Material requirements 1.2.2 Mechanical requirements 1.2.3 Post processing requirements (ex. Surface roughness, etc.) 		Company/Industry/Individual requesting for printing
1.3 For students: <ul style="list-style-type: none"> 1.3.1 Letter of Request for Discount to Executive Director 1.3.2 Photocopy of valid student ID 		School/University where the student is enrolled
2. Releasing of 3D Printed Parts/Components		
2.1. (1) Original or Photocopy of issued Job Order (JO)		Process Research Section
2.2. (1) Original or Photocopy of issued Official Receipt/Confirmation Receipt		Cashier's Office, MIRDC-Finance and Administrative Division (FAD)
2.3. (1) Original or Photocopy of Authorization Letter (for person other than Company's representative)		Company requesting for printing
2.4. (1) Company ID/School ID and/or (1) government issued ID		Company requesting for printing



CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Submit files for printing and other requirements to the Process Research Section (AMCen)	1.1 Evaluate files for printability and discuss internally the parameters, printer settings and additional processes including post-processing requirements	None	1 hour	<i>Senior Science Research Specialist, and/or Science Research Specialist II, and/or Metals Technologist V, and/or Metals Technologist III, PRS</i>
	1.2 Discuss and agree with the client on the parameters, printer settings, and additional processes including post-processing requirements		1 hour	Chief, MPRD and Deputy Executive Director for R&D
	1.3 Generate Quotation and have it signed by authorized signatories		3 days	<i>Senior Science Research Specialist, and/or Science Research Specialist II, PRS</i>
	1.4 E-mail quotation to client		1 minute	
2. Review and approve quotation and emailed back signed quotation	2.1 Receive signed quotation and generate Job Order		10 minutes	<i>Senior Science Research Specialist, and/or Science Research Specialist II, PRS</i>
	2.2 Email JO to client for approval			



3. Review, approve and sign Job Order and emailed back	3.1 Receive signed Job Order and process JO	None	1 day	- same as step 1 –
None	<p>3.2 Conduct 3D printing</p> <p>3.3 Post processing (annealing, polishing etc.)</p> <p>3.4 Evaluation of the 3D printed sample, if required (Conduct measurement for dimensional accuracy)</p> <p>3.5 Inform client that item is ready for pickup</p>	None	<p>14 days</p> <p>1 minute</p>	<p><i>Metals Technologist V, and/or Metals Technologist II, and/or Metals Technologist II, PRS and/or Metals Technologist II, PRS</i></p> <p><i>Senior Science Research Specialist, and/or Science Research Specialist II, PRS</i></p>
4. Return to MIRDC and proceed to PRS (AmCen Bldg) to claim item	4. Generate Delivery Receipt (DR), in five copies.		5 minutes	<i>Senior Science Research Specialist, and/or Science Research Specialist II, PRS</i>
<p>5. Proceed to Cashier's Office (Gold Building) "Order of Payment" Window and submit DRs for payment</p> <p>For online payment go to: https://www.lbp-</p>	<p>5.1 Received and Review the DR</p> <p>5.2 Issue Order of Payment and endorse documents to Cashier</p>	See attached Standard Fees and Charges	15 minutes	<i>Administrative Officer IV Financial Management Section or Administrative Officer V Financial</i>



eservices.com/egps/portal/index.jsp and proceed to Step 7				Management Section
6. Pay the required fees and received the Official Receipt, copy of the DR stamped "Paid"	6.1 Accept and process payment based on the Order of Payment 6.2 Issue the Official Receipt (OR) 6.3 Stamp "PAID" on the DRs and return them to customer. Retain blue copy of the DRs		5 minutes	<i>Administrative Officer V</i> Administrative and General Services Section or <i>Administrative Officer II</i> Administrative and General Services Section
7. Proceed to the AM Cen Building	7. None	None	5 minutes	
8. Sign "Items received by:" in the Delivery Receipt and submit DRs and present OR	8. Check DR and OR. Return DRs; retain yellow and pink copies of the DR.	None	3 minutes	- same as step 1 -
9. Customer fills out Client Satisfaction Measurements (CSM)	9. Collect and file the Client Satisfaction Measurements (CSM) (if physical)	None	5 minutes	- same as step 1 -
10. Surrender DR to security personnel	10. Return white copy of DR and retain green copy	None	1 minute	<i>Security Personnel stationed at the Main Gate or Security Outpost</i>
		TOTAL	18 days, 2 hours and 51 minutes	



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
Witnessing during 3D printing preparation requested by client.	Witnessing can be accommodated on an agreed schedule and therefore will move the target completion on a later date.	Process Research Section, AMCen	Target date of completion will start only after witnessing has been completed, and not on the date job was accepted.
Printed items additional machining and quality assurance requirements	Client to enter job in TSSS.	Technical Solution Services	Separate target processing time.
Client requests for copy of printing parameters used for the JO	MIRDC can provide Printing Parameter Sheet, if required, as approved by MPRD, Division Chief	Process Research Section, AMCen	Available upon request
Printing process failed and/or stopped due to power interruption	<p>Inform the client about the incident.</p> <p>Inform the client that the duration of the 3D printing service will exceed the agreed target due to power interruption.</p> <p>Set a target date with the appropriate number of days added to accommodate the client's request as agreed by both parties.</p>	Process Research Section, AMCen	Target date of completion will be reflected in the Job Order to be conformed by the client



<p>For Internal Technical Service Requests</p>	<p>Same procedure applies (as listed above)</p>	<p>Process Research Section, AMCent</p>	<p>Steps 1.3, 1.4, 2.1, 4, 5, 6, 8 and 10 are not applicable to internal clients.</p> <p>For step 8, only the copy of the JO is needed for claiming/pick-up.</p> <p>Internal Service Request will queue along with External Service Requests</p>
<p>If the client's job request exceeds the following dimensions or parameters:</p> <p>For files with maximum dimension of 500mm x 500mm x 2000mm Volume: 400mm x 400mm x 1000mm Infill: 10% Approx. Weight: 25600g Print speed: 40mm/s Layer height 0.5mm</p> <p>Files with maximum dimension of 330mm x 240mm x 300mm Volume: 320mm x 230mm x 290mm Infill: 20% Approx. Weight: 5750g Print speed: 60mm/s Layer height 0.2mm</p> <p>Files with maximum dimension of 300mm x 300mm x 400mm Volume: 285mm x 290mm x 390mm Infill: 10% Approx. Weight 4960g Print speed: 40mm/s Layer height: 0.3mm</p>	<p>Inform the client that the duration of the 3D printing service will exceed 15 days.</p> <p>Set a target date with the appropriate number of days added to accommodate the client's request as agreed by both parties.</p>	<p>Process Research Section, AMCent</p>	<p>Target date of completion will be reflected in the Job Order to be conformed by the client</p>



<p>For files with maximum dimension of 1100mm x 850mm x 620mm Volume: 950mm x 750mm x 470mm Infill: 50% Approx. Weight: 157300g Print speed: 25mm/s Layer height 2mm</p> <p>For files with maximum dimension of 6000mm x 2400mm x 2400mm Volume: 2000mm x 1000mm x 1000mm Infill: 5% Approx. Weight: 350000g Print speed: 5mm/s Layer height 5mm</p> <p>Files with maximum dimension of 600mm x 760mm x 600mm Volume: 575mm x 750mm x 600mm Infill: 70% Approx. Weight: 177500g Print speed: 25mm/s Layer height 2mm</p> <p>For files with maximum dimension of 250mm x 250mm x 300mm Volume: 160mm x 160mm x 160mm Infill: 100% Approx. Weight: 11000g Resolution: 30µm</p> <p>For files with maximum dimension of 145mm x 145mm x 175mm Volume: 140mm x 140mm x 168mm Approx. Weight: 3970g Resolution: 50 microns</p>			
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STANDARD FEES AND CHARGES

No.	Type of Equipment	Method	Capacity	Fees and Charges, PhP/ Hr
1	Ultimaker S5	FFF 3D Printing	330mmx240mmx300mm	209.01
2	Leapfrog Xcel	FFF 3D Printing	500mmx500mmx 2000mm	322.44
3	Intamsys Funmat Pro 410 HT	FFF 3D Printing	300mmx300mmx400mm	305.47
4	Hyrel Hydra 16AS	FFF 3D Printing/ Viscous Solution Printing	400mmx300mmx250mm	399.82
5	Gigabot X XLT	Pellet 3D Printing	600mmx760mmx600mm	344.32
6	Cosine AM1	Pellet 3D Printing	1100mmx850mmx620mm	895.38
7	Erectorbot 2088 HD	Pellet 3D Printing	6000mmx2400mmx2400mm	2,027.77
8	Formlabs Form2	SLA 3D Printing	145mmx145mmx175mm	217.15
9	3DCeram C900	Ceramic SLA 3D Printing	300mmx300mmx100mm	2,150.72
10	EOS M290	DMLS 3D Printing	250mmx250mmx300mm	2,559.63
11	Shot Peening	Post processing (for DMLS)	250mmx250mmx300mm	297.45
12	Sintering Furnace	Post processing (for DMLS)	250mmx250mmx300mm	281.67
13	De-binding Kiln	Post processing (for Ceramic SLA)	120mm diam x 750mm	382.87
14	Sintering Kiln	Post processing (for Ceramic SLA)	300mmx300mmx100mm	338.36
15	Form Wash	Post processing (for SLA)	145mmx145mmx175mm	223.60
16	Form Cure	Post processing (for SLA)	145mmx145mmx175mm	220.50

Note: Fees inclusive of removing supports
Other Fees: Feedstock materials



II. Contract Research/ Joint Research Services

This service is offered to conduct research and development in partnership with the private/government firms with the aim to improve their products and processes.

Failure Analysis/Failure Investigation of metal parts and components with identified deliverables needing research and development falls under this service. If none, please refer to *Physical Metallurgy Laboratory Services - Failure Analysis/Failure Investigation*.

Office/Division:	Materials and Process Research Division	
Classification:	Highly Technical	
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government	
Who may avail:	All	
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE
1. Submission of Proposal		
1.1 Letter of Intent	Client	
1.2 Concept / Drawing / Design	Client	
1.3 Sample Product/ Material	Client	
1.4 For Failure Analysis/Investigation: 1.4.1 Failed part/component (fracture surface must be protected from further damage and contamination). 1.4.2 Applicable test results, depending on nature of failure, metal grade, size of sample, etc.	Company/Industry requesting for testing (failed parts/components, relevant documents, and other tests not mentioned below)	
a. Chemical analysis (OES, wet method, etc.)	Chemical Laboratory, ATD, MIRDC or from any other chemical laboratory of choice (chemical analysis)	
b. Positive material identification (PMI) using XRF analyzer		
c. Tensile test	Mechanical Testing Laboratory, ATD, MIRDC or from any other mechanical laboratory of choice (tensile test, hardness test, bend test)	
d. Hardness test		
e. Bend test		
f. Non-destructive tests (radiography, ultrasonic, magnetic particle, penetrant)	Non-destructive Testing Laboratory, ATD, MIRDC or from any other non-destructive laboratory of choice (NDT)	



<p>g. Fractographic Evaluation h. Macroexamination i. Metallography j. Scanning Electron Microscopy (SEM) k. Energy Dispersive Electron Microscopy (EDS) l. Metallurgical Sample Preparation m. Other tests not identified above but deemed necessary upon assessment.</p> <p>1.4.3 Relevant documents (incident report, photos on site of incident, materials specification and technical requirements, maintenance and inspection record, etc).</p> <p>1.4.4 Sample/s for testing needs complex sectioning/cutting.</p>	<p>Physical Metallurgy Laboratory (fractographic evaluation, macroexamination, metallography, SEM, EDS, metallurgical sample preparation, etc)</p> <p>Technical Solution Services Section (TSSS), MIRDC (complex cutting services)</p>
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2. Claiming of R&D Output

2.1. One (1) Original or Photocopy of issued Project Order (PO)	MPRD
2.2. One (1) Original or Photocopy of issued Official Receipt/Confirmation Receipt	Cashier Office, MIRDC-Finance and Administrative Division (FAD)

CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
<p>1. Customer inquiry (Walk-in or Electronic mail)</p> <p>For walk-in customers, A. Proceed to MPRD-DHO, AMCent Building.</p> <p>B. Proceed to Physical Metallurgy Laboratory, Titanium Building for Failure Analysis/Investigation concerns.</p>	<p>1.1 Attend to customer inquiry</p> <p>1.2 Review whether the inquiry is a contract/joint research for MPRD and assign to researcher, otherwise, refer inquiry to concerned division</p> <p>1.3 Request the customer to submit Letter of Intent</p>	None	1 hour	<p>Chief, MPRD together with the prospective MPRD Researcher</p> <p>or</p> <p>Supervising Science Research Specialist,</p> <p>Physical Metallurgy Laboratory</p>



<p>2. Submit Letter of Intent (LOI) - for projects other than Failure Analysis/ Investigation</p>	<p>2.1 Receive Letter of Intent</p> <p>2.2 Assign and discuss with MPRD researcher</p>	<p>None</p>	<p>10 minutes</p>	<p>Chief, MPRD, together with the concerned Supervising SRS and assigned MPRD Researcher</p>
<p>3. With assistance from MIRDC, prepare and submit proposal using prescribed form. Revise, if needed.</p>	<p>3.1 Review submitted proposal, including customer requirements, deliverables, workplan and line-item-budget (LIB).</p> <p>3.2 Submit and present proposal to R&D Committee for review and approval.</p> <p>3.3 Inform client of the comments. Jointly, revise the proposal if needed and resubmit to R&D Committee.</p>	<p>None</p>	<p>12 days (exclusive of time for negotiation process and time securing appointment schedule from R&D committee)</p>	<p>Assigned MPRD Researcher</p>
<p>4. Review Memorandum of Agreement (MOA)/ Research Funding Agreement (RFA) and provide feedback.</p>	<p>4.1 Once the proposal is approved, prepare and send copy of the Memorandum of Agreement (MOA) to Customer for review and comments.</p>	<p>None</p>	<p>4 days</p>	<p>Assigned MPRD researcher</p>



	<p>4.2 Review feedback and amend MOA as needed.</p> <p>4.3 Prepare five (5) copies of revised MOA and send to client for signing.</p>			
<p>5. Sign the MOA/RFA and submit signed copies to assigned MPRD researcher.</p> <p>Receive agency signed copies of MOA/RFA.</p>	<p>5.1 Receive the MOA and route for MIRDC officials' signatures.</p> <p>5.2 Return agency signed copy of the Contract/MOA to client for notarization.</p>	None	3 days	Assigned MPRD Researcher
<p>6. Notarize MOA/RFA.</p> <p>Submit copies to: Notary Public – two (2) copies Client – one (1) copy End-user/ Project – one (1) copy MIRDC Legal Officer– one (1) copy</p>	<p>6.1 Receive notarized MOA.</p>	None	5 minutes	Assigned MPRD Researcher
<p>7. Accomplish and sign two (2) copies of Project Order (PO). Provide required details.</p> <p>Receive one (1) copy of PO.</p>	<p>7.1 Fill-out two (2) copies of Project Order (PO) Form.</p> <p>7.2 Review and Sign PO by Receiving staff.</p> <p>7.3 Issue a copy of PO to client.</p>	None	30 minutes	<p>Chief, MPRD</p> <p>Assigned MPRD Researcher</p>



<p>8. Proceed to Cashier's Office "Order of Payment (O.P.)" Window and present the PO for payment.</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 11</p>	<p>8.1 Receive and Review the PO.</p> <p>8.2 Create O.P. manually.</p> <p>8.3 Reflect invoice details or application of deposit if there is any.</p> <p>8.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (OR).</p>	<p>None</p>	<p>15 minutes</p>	<p><i>Administrative Officer IV</i> Financial Management Section Or <i>Administrative Officer V</i> Financial Management Section</p>
<p>9. Pay the required fee (if paying in cash) and Receive OR, copy of PO stamped "PAID"</p>	<p>9.1 Receive documents and process Official Receipt based on the O.P.</p> <p>9.2 Receive payment (cash) Stamp "PAID" all documents. If payment is in the form of check, review the check as to amount, date and signatory.</p> <p>9.3 Release to Client O.R. and all billing documents except accounting copy.</p>	<p>Contract Cost highly depended on the complexity of the project, duration, and deliverables of the project.</p>	<p>5 minutes</p>	<p><i>Administrative Officer V</i> Administrative and General Services Section or <i>Administrative Officer II</i> Administrative and General Services Section</p>



10. None	<p>10.1 Implement Research and Development project based on approved workplan/ duration.</p> <p>10.2 Inform customer on the completion of the project.</p>	None	Depending on the approved workplan	Assigned MPRD Researcher
<p>11. Proceed to MPRD, present copy of Official Receipt/Confirmation Receipt and and PO.</p> <p>Sign applicable documents.</p> <p>Accept/receive R&D Project output/s and documents.</p>	<p>11.1 Turn-over /release the Research and Development Project Output/s.</p> <p>11.2 Prepare and request the customer to sign the Property Entry/Exit Slip, Acknowledgement Receipt of Equipment, Certificate of Project Completion/ Certificate of Acceptance, and/or Failure Analysis/ Investigation Report, as applicable.</p>	None	1 hour	Assigned MPRD Researcher
12. Fill out Customer/Client Satisfaction Survey Form and submit to MPRD staff.	12.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	Assigned MPRD Researcher
		TOTAL	19 days 3 hours 10 minutes (exclusive of actual implementation)	



SITUATION	ACTION	LOCATION	REMARKS
The inquiry in Agency Action 1.1 requires more than one engineering / science field.	Meeting with experts/ researchers may be required.	MIRDC	Will take longer time depending on the assessments / arguments of experts/ researchers.
If the R&D Committee has concerns / comments that need to be addressed in Agency Action 3.3	Coordinate with the client and inform them on the concerns / comments. Provide necessary actions to address the concerns / comments.	MIRDC	Will take longer time depending on the next schedule of review of the R&D Committee
Projects above Php 2M will be subject to approval of the MIRDC Governing Council (GC)	Project proposal will be included in the Agenda for the Meeting or subject to a referendum	Venue of GC Meeting	Process will take additional time.
Senior citizen's request for a 20% discount.	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	The discounts are automatically granted provided that 1. They can present their senior citizen's ID or any government issued ID bearing their birthdate 2. They are paying for the service individually (not through company).



III. Physical Metallurgy Laboratory Services

A. Physical Metallurgy Laboratory Services - Laboratory Test and Analysis

Highly Technical Tests and Evaluations

1. Failure Analysis/Failure Investigation – It is a process of collecting information and data through different metallurgical, mechanical and chemical tests, and analyze these information and test results to determine the cause of failure. (. *(For cases with identified deliverables needing research and development, please refer to Contract/Joint Research)*)

2. Fractographic Evaluation – It is a process of collecting information and data by observing the fracture surface of a fractured metal using visual, optical microscope, and electron microscope to determine mode of fracture.

Office/Division:	Materials and Process Research Division	
Classification:	Highly Technical	
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government	
Who may avail:	All	
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE
1. Submission of samples		
1.4 For Failure Analysis/Investigation: 1.4.1 Failed part/component (fracture surface must be protected from further damage and contamination). 1.4.2 Applicable test results, depending on nature of failure, metal grade, size of sample, etc a. Chemical analysis (OES, wet method, etc.) b. Positive material identification (PMI) using XRF analyzer c. Tensile test d. Hardness test e. Bend test f. Non-destructive tests (radiography, ultrasonic, magnetic particle, penetrant)	Company/Industry requesting for testing (failed parts/components, relevant documents, and other tests not mentioned below) Chemical Laboratory, ATD, MIRDC or from any other chemical laboratory of choice (chemical analysis) Mechanical Testing Laboratory, ATD, MIRDC or from any other mechanical laboratory of choice (tensile test, hardness test, bend test) Non-destructive Testing Laboratory, ATD, MIRDC or from any other non-destructive laboratory of choice (NDT)	



<p>g. Fractographic Evaluation h. Macroexamination i. Metallography j. Scanning Electron Microscopy (SEM) k. Energy Dispersive Electron Microscopy (EDS) l. Metallurgical Sample Preparation</p> <p>m. Other tests not identified above but deemed necessary upon assessment.</p> <p>1.4.3 Relevant documents (incident report, photos on site of incident, materials specification and technical requirements, maintenance and inspection record, etc).</p> <p>1.4.4 Sample/s for testing needs complex sectioning/cutting.</p>	<p>Physical Metallurgy Laboratory (fractographic evaluation, macroexamination, metallography, SEM, EDS, metallurgical sample preparation, etc)</p> <p>Technical Solution Services Section (TSSS), MIRDC (complex cutting services)</p>
<p>1.5 For students (who will pay for the service): Write a letter (using the school's letterhead) addressed to the Executive Director requesting for discount, endorsed by adviser. Provide one (1) copy to Physical Metallurgy Lab and bring School ID</p>	<p>School/University where the student is enrolled</p>
<p>1.6 For Senior Citizen (who will pay for the service as an individual): Bring Senior Citizen's ID or valid ID with birthdate</p>	<p>Local Government Unit</p>
<p>2. Claiming of test certificates and retrieving of samples</p>	
<p>Client to bring the following:</p>	
<p>2.1 One (1) Original or Photocopy of issued Job Order (JO)</p>	<p>Issued by Physical Metallurgy Lab</p>
<p>2.2 One (1) Original or Photocopy of issued Official Receipt/Confirmation Receipt</p>	<p>Issued by Cashier Office, FAD</p>
<p>2.3. One (1) Original or Photocopy of Authorization Letter (for person other than Company's representative)</p>	<p>Client</p>
<p>2.4. One (1) Company ID/School ID and/or One (1) government issued ID</p>	<p>Client/Client's Representative</p>



CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
<p>1. Submit sample/ documents and other requirements for evaluation of attending staff of the Physical Metallurgy Lab, Titanium Building.</p> <p>Provide the information requested by the attending staff to generate job order/s.</p> <p>Review and sign two (2) copies of Job Order (JO).</p> <p>Receive one (1) copy of JO.</p>	<p>1.1 Evaluate sample/s and discuss additional processes and requirements, if necessary.</p> <p>1.2 Label sample/s submitted and mark agreed orientation/test area</p> <p>1.3 Generate JO in two (2) copies</p> <p>1.4 Review and Sign JO by Receiving staff</p> <p>1.5 Issue a copy of JO to client</p>	None	1 hour	<p>Senior Science Research Specialist or Supervising Science Research Specialist, or Metals Technologist IV or Metals Technologist II</p> <p>Physical Metallurgy Laboratory</p>
<p>2. Present Visitor's Pass for signature.</p> <p>Receive signed Visitor's Pass</p>	<p>2.1 Sign and return Visitor's Pass</p>	None	1 minute	- same as step 1 -
<p>3. Proceed to Cashier's Office "Order of Payment (O.P.)" Window and present the JO for payment.</p>	<p>3.1 Receive and Review the JO.</p> <p>3.2 Create O.P. manually.</p> <p>3.3 Reflect invoice details or application of deposit if there is any.</p> <p>3.4 Forward O.P. and other</p>	None	10 minutes	<p>Administrative Officer IV Financial Management Section or Administrative Officer V Financial Management Section</p>



For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 5	documents to Cashier for issuance of Official Receipt (OR).			
4. Pay the required fee (if paying in cash) and Receive OR, copy of JO stamped "PAID"	<p>4.1 Receive documents and process Official Receipt based on the O.P.</p> <p>4.2 Receive payment (cash) Stamp "PAID" all documents. If payment is in the form of check, review the check as to amount, date and signatory.</p> <p>4.3 Release to Client O.R. and all billing documents except accounting copy.</p>	<p>Fractographic Evaluation – Php 7,000.00</p> <p>Failure Analysis /Failure Investigation - Php 25,000.00</p> <p>plus</p> <p>Other tests and sample preparations as deemed necessary .</p> <p>Please refer to "Table of Fees" at the end of this table.</p>	5 minutes	<p>Administrative Officer V Administrative and General Services Section or Administrative Officer II Administrative and General Services Section</p>
5. None. (Client may witness on an agreed schedule upon request and payment of	5.1 Laboratory staff to conduct sample preparations and test and analysis per customer instructions and	None	<p>Fractographic Evaluation – 19 days</p> <p>Failure Analysis/ Failure Investigation –</p>	- same as step 1 -



corresponding fees)	applicable test methods.		19 days (provided all required tests have been completed and results submitted)	
6. Present copy of JO, OR, and other applicable documents at Physical Metallurgy Lab, Titanium Building. Sign laboratory's file copy of test reports/certificates and "Items retrieved by:" portion of laboratory's file copy of JO. Receive test reports/certificates and samples.	6.1 Check JO and OR. 6.2 Record OR No. and Amount on JO (Phys Met copy) and return OR to client. 6.3 Issue Test Reports/ Certificates 6.4 Return samples to Client	None	10 minutes	- same as step 1 -
7. Fill out Customer/Client Satisfaction Survey Form and submit to Phys Met staff	7.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	- same as step 1 -
8. Present MIRDC Visitor's Pass for signature. Receive signed Visitor's Pass.	8. Sign and return MIRDC Visitor's Pass	None	1 minute	- same as step 1 -
		TOTAL	19 days, 1 hour 32 minutes	



Table of Fees

Physical Metallurgy	Cost/sample
1. Metallurgical Sample Preparation	
Cutting	140.00
Mounting	
Hot Mounting	80.00
Cold Mounting	360.00
Metallographic Grinding	400.00
Metallographic Polishing	350.00
Etching	120.00
2. Thickness of Coating (inclusive of grinding, polishing, etching; and one (1) high magnification photo and one (1) low magnification photo per test point)	2,200.00
3. Scanning Electron Microscopy (inclusive of 2 photos per sample)	
Conductive Sample	2,000.00
Non-conductive Sample	2,600.00
4. Energy Dispersive Spectroscopy	2,000.00
5. Macroexamination	1,850.00
6. Metallography (inclusive of grinding, polishing. Etching; and one (1) high magnification photo and one (1) low magnification photo per test point)	
Plain Carbon Steel	1,600.00
Cast Iron	2,000.00
Aluminum/Aluminum Alloy	2,050.00
Copper/Copper Alloy	2,200.00
Thickness of Coating	2,200.00
Stainless Steel	2,250.00
Low Alloy Steel/High Alloy Steel	2,250.00
Boiler Tubes	2,500.00
Galvanized Sheet	2,500.00
Multi-layered Bearings	2,600.00
Weldments	3,500.00
Lead/Lead Alloy	3,800.00
7. Metal Classification/Certification (per sample)	750.00
8. Fractographic Evaluation (exclusive of other tests and fees for use of equipment)	7,000.00
9. Failure Investigation (exclusive of other tests and fees for use of equipment)	25,000.00
10. Photomicrography (per additional photograph)	80.00



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
Witnessing during testing is requested by client.	Witnessing can be accommodated on an agreed schedule and therefore will move the target completion on a later date.	Physical Metallurgy Laboratory, Titanium Building	Reckoning of target date of completion will start from the date of witnessing, and not on the date job was accepted.
Laboratories of subsequent processes requested for deferment.	Final steps in the preparation of samples will be deferred.	Physical Metallurgy Laboratory, Titanium Building	Reckoning of target date of completion will take a pause during this period.
Sample needs complex cutting.	Client to enter job in TSSS.	Technical Solution Services Section	Separate target processing time.
Up to five (5) samples can be prepared (from grinding to etching) for one day.	One (1) day will be added for every additional five (5) samples.	Physical Metallurgy Laboratory, Titanium Building	May exceed the three (3) days processing time for simple jobs if more than five samples, depending on the complexity of sample preparations needed.
Internal client avails the service	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	Steps 2, 3, 4 and 8 are not applicable to internal clients. For step 6, only the copy of the JO is needed for claiming of results.
Students request for a 20% discount.	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	The discounts are automatically granted provided that 1. They can provide one (1) copy of a letter addressed to the Executive Director, endorsed by their adviser,



			<p>requesting for discount, as well as their School ID.</p> <p>2. They are paying for the service individually (not through school or company).</p>
Senior citizen's request for a 20% discount.	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	<p>The discounts are automatically granted provided that</p> <p>1. They can present their senior citizen's ID or any government issued ID bearing their birthdate</p> <p>2. They are paying for the service individually (not through company).</p>
Multiple tests are required for failure analysis.	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	<p>Lead time of 19 days will start once all required tests have been completed and the results submitted to Physical Metallurgy Laboratory.</p>



3. Metallurgical Sample Preparation – It is performed on samples to reduce the size and/or prepare the surface as required by the test equipment or test method.

Office/Division:	Materials and Process Research Division	
Classification:	Simple	
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government	
Who may avail:	All	
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE
1. Submission of samples		
1.1 Metallurgical Sample Preparation - bigger/thicker samples may require complex cutting/sectioning process not available in Physical Metallurgy Lab	Company/Industry requesting for testing (samples)	Physical Metallurgy Laboratory (simple cutting services and mounting) Technical Solution Services Section (TSSS), MIRDC (complex cutting services)
1.2 For students (who will pay for the service): Write a letter (using the school's letterhead) addressed to the Executive Director requesting for discount, endorsed by adviser. Provide one (1) copy to Physical Metallurgy Lab and bring School ID	School/University where the student is enrolled	
1.3 For Senior Citizens (who will pay for the service as an individual): Bring Senior Citizen's ID or valid ID with birthdate	Local Government Unit	
2. Retrieving of samples		
Client to bring the following:		
2.1 One (1) Original or Photocopy of issued Job Order (JO)		Issued by Physical Metallurgy Lab
2.2 One (1) Original or Photocopy of issued Official Receipt/Confirmation Receipt		Issued by Cashier Office, FAD
2.3. One (1) Original or Photocopy of Authorization Letter (for person other than Company's representative)		Client



2.4. One (1) Company ID/School ID and/or One (1) government issued ID			Client/Client's Representative	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
<p>1. Submit sample/documents and other requirements for evaluation of attending staff of the Physical Metallurgy Lab, Titanium Building.</p> <p>Provide the information requested by the attending staff to generate job order/s.</p> <p>Review and sign two (2) copies of Job Order (JO).</p> <p>Receive one (1) copy of JO.</p>	<p>1.1 Evaluate sample/s and discuss additional processes and requirements, if necessary.</p> <p>1.2 Label sample/s submitted and mark agreed orientation/test area.</p> <p>1.3 Generate JO in two (2) copies.</p> <p>1.4 Review and Sign JO by Receiving staff.</p> <p>1.5 Issue a copy of JO to client.</p>	None	30 minutes	<p>Senior Science Research Specialist or <i>Supervising Science Research Specialist,</i> or <i>Metals Technologist IV</i> or <i>Metals Technologist II</i></p> <p>Physical Metallurgy Laboratory</p>
<p>2. Present Visitor's Pass for signature.</p> <p>Receive signed Visitor's Pass.</p>	<p>2.1 Sign and return Visitor's Pass.</p>	None	1 minute	- same as step 1 -
<p>3. Proceed to Cashier's Office "Order of Payment (O.P.)" Window and present the JO for payment.</p> <p>For online payment go to: https://www.lbp-</p>	<p>3.1 Receive and Review the JO.</p> <p>3.2 Create O.P. manually.</p> <p>3.3 Reflect invoice details or application of</p>	None	10 minutes	<p><i>Administrative Officer IV</i> Financial Management Section Or <i>Administrative Officer V</i></p>



<p>eservices.com/egps/portal/index.jsp and proceed to Step 5</p>	<p>deposit if there is any.</p> <p>3.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (OR).</p>			<p>Financial Management Section</p>
<p>4. Pay the required fee (if paying in cash) and Receive OR, copy of JO stamped "PAID"</p>	<p>4.1 Receive documents and process Official Receipt based on the O.P.</p> <p>4.2 Receive payment (cash) Stamp "PAID" all documents. If payment is in the form of check, review the check as to amount, date and signatory.</p> <p>4.3 Release to Client O.R. and all billing documents except accounting copy.</p>	<p>Please refer to "Table of Fees" at the end of this table.</p>	<p>5 minutes</p>	<p>Administrative Officer V Administrative and General Services Section or Administrative Officer II Administrative and General Services Section</p>
<p>5. None. (Client may witness upon request and payment of corresponding fees)</p>	<p>5.1 Laboratory staff to conduct sample preparations and test and analysis per customer instructions and applicable test methods.</p>	<p>None</p>	<p>1 day 4 hours</p>	<p><i>Metals Technologist IV</i> or <i>Metals Technologist II</i> Physical Metallurgy Laboratory</p>



<p>6. Present copy of JO, OR, and other applicable documents at Physical Metallurgy Lab, Titanium Building.</p> <p>Sign laboratory's file copy of test reports/certificates and "Items retrieved by:" portion of laboratory's file copy of JO.</p> <p>Receive samples.</p>	<p>6.1 Check JO and OR.</p> <p>6.2 Record OR No. and Amount on JO (Phys Met copy) and return OR to client.</p> <p>6.3 Return samples to Client</p>	None	10 minutes	- same as step 1 -
<p>7. Fill out Customer/ Client Satisfaction Survey Form and submit to Phys Met staff</p>	<p>7.1 Collect and file the filled-out Customer/ Client Satisfaction Survey Form</p>	None	5 minutes	- same as step 1 -
<p>8. Present MIRDC Visitor's Pass for signature.</p> <p>Receive signed Visitor's Pass.</p>	<p>8. Sign and return MIRDC Visitor's Pass</p>	None	1 minute	- same as step 1 -
		TOTAL	1 day, 5 hours and 2 minutes	

Table of Fees

Physical Metallurgy	Cost/sample
Metallurgical Sample Preparation	
Cutting	140.00
Mounting	
Hot Mounting	80.00
Cold Mounting	360.00
Metallographic Grinding	400.00
Metallographic Polishing	350.00
Etching	120.00



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
Witnessing during testing is requested by client.	Witnessing can be accommodated on an agreed schedule and therefore will move the target completion on a later date.	Physical Metallurgy Laboratory, Titanium Building	Reckoning of target date of completion will start from the date of witnessing, and not on the date job was accepted.
Laboratories of subsequent processes requested for deferment.	Final steps in the preparation of samples will be deferred.	Physical Metallurgy Laboratory, Titanium Building	Reckoning of target date of completion will take a pause during this period.
Sample needs complex cutting.	Client to enter job in TSSS.	Technical Solution Services Section	Separate target processing time.
Up to five (5) samples can be prepared (from grinding to etching) for one day.	One (1) day will be added for every additional five (5) samples.	Physical Metallurgy Laboratory, Titanium Building	May exceed the three (3) days processing time for simple jobs if more than five samples, depending on the complexity of sample preparations needed.
Internal client avails the service	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	Steps 2, 3, 4 and 8 are not applicable to internal clients. For step 6, only the copy of the JO is needed for claiming of results.
Students request for a 20% discount.	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	The discounts are automatically granted provided that 1. They can provide one (1) copy of a letter addressed to the Executive Director, endorsed by



			<p>their adviser, requesting for discount, as well as their School ID.</p> <p>2. They are paying for the service individually (not through school or company).</p>
Senior citizen's request for a 20% discount.	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	<p>The discounts are automatically granted provided that</p> <p>1. They can present their senior citizen's ID or any government issued ID bearing their birthdate</p> <p>2. They are paying for the service individually (not through company).</p>

4. Optical and Electron Microscopy

a. Thickness of Coating – It is a measurement of the thickness of coating material/s on a particular substrate using optical microscope.

b. Energy Dispersive Spectroscopy (EDS) – It is an analytical technique used in conjunction with scanning electron microscopy (SEM) to determine which chemical elements are present in a sample and estimate their relative abundance.

c. Scanning Electron Microscopy (SEM) – Evaluation of samples using the Scanning Electron Microscope.

d. Macroexamination – It is a process of collecting information and data of a sample on a macro level by conducting visual inspection and use of stereomicroscope as applicable. Usually, this technique is a vital step in the failure analysis.

e. Metallography – This describes the microstructure and micro constituents of a metal using microscope.



Office/Division:	Materials and Process Research Division	
Classification:	Complex	
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government	
Who may avail:	All	
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE
1. Submission of samples		
<p>1.1 Thickness of Coating - samples may need additional sample preparation such as mounting, grinding, polishing and/or etching</p> <p>1.2 SEM/EDS - - maximum of 2 inches (height) x 4 inches (width/diameter) - bigger/thicker samples may require complex cutting/sectioning process not available in Physical Metallurgy Lab - smaller/thinner samples may require additional mounting process</p>	<p>Company/Industry requesting for testing (samples)</p> <p>Physical Metallurgy Laboratory (simple cutting services and mounting)</p> <p>Technical Solution Services Section (TSSS), MIRDC (complex cutting services)</p>	
<p>- gold sputtering coating is highly recommended for non-conductive samples</p> <p>1.3 Macroexamination - bigger/thicker samples for stereomicroscope viewing may require complex cutting/sectioning process not available in Physical Metallurgy Lab</p> <p>1.4 Metallography - cut to 25mm diameter/width and height of at least 10mm - bigger/thicker samples may require complex cutting/sectioning process not available in Physical Metallurgy Lab - smaller/thinner samples may require additional mounting process (depends on technician's evaluation)</p>		
<p>1.5 For students (who will pay for the service): Write a letter (using the school's letterhead) addressed to the Executive Director requesting for discount, endorsed by adviser. Provide one (1) copy to Physical Metallurgy Lab and bring School ID</p>	<p>School/University where the student is enrolled</p>	
<p>1.6 For Senior Citizens (who will pay for the service as an individual): Bring Senior Citizen's ID or valid ID with birthdate</p>	<p>Local Government Unit</p>	



2. Claiming of test certificates and retrieving of samples				
Client to bring the following:				
2.1 One (1) Original or Photocopy of issued Job Order (JO)		Issued by Physical Metallurgy Lab		
2.2 One (1) Original or Photocopy of issued Official Receipt/Confirmation Receipt		Issued by Cashier Office, FAD		
2.3. One (1) Original or Photocopy of Authorization Letter (for person other than Company's representative)		Client		
2.4. One (1) Company ID/School ID and/or One (1) government issued ID		Client/Client's Representative		
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
<p>1. Submit sample/documents and other requirements for evaluation of attending staff of the Physical Metallurgy Lab, Titanium Building.</p> <p>Provide the information requested by the attending staff to generate job order/s.</p> <p>Review and sign two (2) copies of Job Order (JO).</p> <p>Receive one (1) copy of JO.</p>	<p>1.1 Evaluate sample/s and discuss additional processes and requirements, if necessary.</p> <p>1.2 Label sample/s submitted and mark agreed orientation/test area</p> <p>1.3 Generate JO in two (2) copies</p> <p>1.4 Review and Sign JO by Receiving staff</p> <p>1.5 Issue a copy of JO to client</p>	None	30 minutes	Senior Science Research Specialist or <i>Supervising Science Research Specialist</i> , or <i>Metals Technologist IV</i> or <i>Metals Technologist II</i> Physical Metallurgy Laboratory
<p>2. Present Visitor's Pass for signature.</p> <p>Receive signed Visitor's Pass</p>	2.1 Sign and return Visitor's Pass	None	1 minute	- same as step 1 -



<p>3. Proceed to Cashier's Office "Order of Payment (O.P.)" Window and present the JO for payment.</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 5</p>	<p>3.1 Receive and Review the JO.</p> <p>3.2 Create O.P. manually.</p> <p>3.3 Reflect invoice details or application of deposit if there is any.</p> <p>3.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (OR).</p>	<p>None</p>	<p>10 minutes</p>	<p><i>Administrative Officer IV Financial Management Section Or Administrative Officer V Financial Management Section</i></p>
<p>4. Pay the required fee (if paying in cash) and Receive OR, copy of JO stamped "PAID"</p>	<p>4.1 Receive documents and process Official Receipt based on the O.P.</p> <p>4.2 Receive payment (cash) Stamp "PAID" all documents. If payment is in the form of check, review the check as to amount, date and signatory.</p> <p>4.3 Release to Client O.R. and all billing documents</p>	<p>Please refer to "Table of Fees" at the end of this table.</p>	<p>5 minutes</p>	<p><i>Administrative Officer V Administrative and General Services Section or Administrative Officer II Administrative and General Services Section</i></p>



	except accounting copy.			
5. None. (Client may witness upon request and payment of corresponding fees)	5.1 Laboratory staff to conduct sample preparations and test and analysis per customer instructions and applicable test methods.	None	Thickness of Coating/ SEM/ EDS – 3 days 4 hours Macroexamination/Metallography - 5 days 4 hours	- same as step 1 -
6. Present copy of JO, OR, and other applicable documents at Physical Metallurgy Lab, Titanium Building. Sign laboratory's file copy of test reports/certificates and "Items retrieved by:" portion of laboratory's file copy of JO. Receive test reports/certificates and samples.	6.1 Check JO and OR. 6.2 Record OR No. and Amount on JO (Phys Met copy) and return OR to client. 6.3 Issue Test Reports/ Certificates 6.4 Return samples to Client	None	10 minutes	- same as step 1 -
7. Fill out Customer/Client Satisfaction Survey Form and submit to Phys Met staff	7.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	- same as step 1 -



8. Present MIRDC Visitor's Pass for signature. Receive signed Visitor's Pass.	8.1 Sign and return MIRDC Visitor's Pass	None	1 minute	- same as step 1 -
	TOTAL	Thickness of Coating/SEM/EDS = 3 days, 5 hours and 2 minutes Macroexamination/Metallography = 5 days, 5 hours and 2 minutes		

Table of Fees

Physical Metallurgy	Cost/sample
1. Thickness of Coating (inclusive of grinding, polishing, etching; and one (1) high magnification photo and one (1) low magnification photo per test point)	2,200.00
2. Scanning Electron Microscopy (inclusive of 2 photos per sample)	
Conductive Sample	2,000.00
Non-conductive Sample	2,600.00
3. Energy Dispersive Spectroscopy	2,000.00
4. Macroexamination	1,850.00
5. Metallography (inclusive of grinding, polishing. Etching; and one (1) high magnification photo and one (1) low magnification photo per test point)	
Plain Carbon Steel	1,600.00
Cast Iron	2,000.00
Aluminum/Aluminum Alloy	2,050.00
Copper/Copper Alloy	2,200.00
Thickness of Coating	2,200.00
Stainless Steel	2,250.00
Low Alloy Steel/High Alloy Steel	2,250.00
Boiler Tubes	2,500.00
Galvanized Sheet	2,500.00
Multi-layered Bearings	2,600.00
Weldments	3,500.00
Lead/Lead Alloy	3,800.00
6. Photomicrography (per additional photograph)	80.00



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
Sample for thickness of coating job needs complex sample preparation such as electroplating, precision cutting and mounting.	Appropriate number of days will be added.	Physical Metallurgy Laboratory, Titanium Building	Additional payment for cutting and mounting.
Witnessing during testing is requested by client.	Witnessing can be accommodated on an agreed schedule and therefore will move the target completion on a later date.	Physical Metallurgy Laboratory, Titanium Building	Reckoning of target date of completion will start from the date of witnessing, and not on the date job was accepted.
Sample needs complex cutting.	Client to enter job in TSSS.	Technical Solution Services Section	Separate target processing time.
For metallography, up to five (5) samples can be prepared (from grinding to etching) for one day for typical cases.	One (1) day will be added for every additional five (5) samples.	Physical Metallurgy Laboratory, Titanium Building	May exceed the seven (7) days processing time for complex jobs if more than five samples, depending on the complexity of the sample preparations needed.
Internal client avails the service	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	<p>Steps 2, 3, 4 and 8 are not applicable to internal clients.</p> <p>For step 6, only the copy of the JO is needed for claiming of results.</p>



<p>Students request for a 20% discount.</p>	<p>Same procedure applies.</p>	<p>Physical Metallurgy Laboratory, Titanium Building</p>	<p>The discounts are automatically granted provided that</p> <ol style="list-style-type: none"> 1. They can provide one (1) copy of a letter addressed to the Executive Director, endorsed by their adviser, requesting for discount, as well as their School ID. 2. They are paying for the service individually (not through school or company).
<p>Senior citizen's request for a 20% discount.</p>	<p>Same procedure applies.</p>	<p>Physical Metallurgy Laboratory, Titanium Building</p>	<p>The discounts are automatically granted provided that</p> <ol style="list-style-type: none"> 1. They can present their senior citizen's ID or any government issued ID bearing their birthdate 2. They are paying for the service individually (not through company).



B. Physical Metallurgy Laboratory Services - In-plant Metallographic Replication

Non-destructive sampling and inspection technique to replicate a microstructure, usually performed to industrial/manufacturing plant parts and components such as boilers, heaters, piping, etc.

Office/Division:	Materials and Process Research Division	
Classification:	Highly Technical	
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government	
Who may avail:	All	
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE
1. Submission of request		
<p>Letter of Request addressed to the Head of Agency. Indicated in the letter are the following:</p> <ol style="list-style-type: none"> Name of Plant/company and complete address where metallographic replication will be performed Proposed schedule of in-plant metallographic replication Material type/grade of the samples/components Target Test Points (with photographs of the components) Type of test that is required (provide copy of standard, if available) Contact details (telephone number and e-mail address) 		Company/Industry requesting for testing
2. Claiming of test certificates		
2.1. One (1) Original or Photocopy of issued Job Order (JO)		Physical Metallurgy, Titanium Building
2.2. One (1) Original or Photocopy of issued Official Receipt/Confirmation Receipt		Cashier Office, MIRDC-Finance and Administrative Division (FAD)
2.3. One (1) Original or Photocopy of Authorization Letter (for person other than Company's representative)		Company requesting for testing
2.4. One (1) Company ID and/or (1) government issued ID		Company requesting for testing



CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
<p>1. Submit Letter of Request to the Supervising SRS, MPRD. (Walk-in or electronic mail)</p> <p>Receive quotation thru electronic mail.</p>	<p>1.1 Discuss with concerned personnel.</p> <p>1.2 Evaluate required test, material type. Check availability of materials, equipment, and personnel on the requested dates, and discuss additional processes and other terms and conditions with client, if any.</p> <p>1.3 Prepare quotation and send to client.</p>	None	5 days	<p><i>Supervising Science Research Specialist, Or Senior Science Research Specialist,</i></p> <p>Physical Metallurgy Laboratory</p>
<p>2. Submit required documents and present MIRDC-issued quotation to Physical Metallurgy Laboratory, Titanium building.</p> <p>Provide the information requested by the attending staff to generate job order/s.</p>	<p>2.1 Generate Job Order (JO) in two (2) copies.</p> <p>2.2 Review and Sign JO by Receiving staff.</p> <p>2.3 Issue a copy of JO to client.</p>	None	20 minutes	<p>Senior Science Research Specialist or Supervising Science Research Specialist, or Metals Technologist IV or Metals Technologist II</p>



Review and sign two (2) copies of Job Order (JO). Receive one (1) copy of JO.				Physical Metallurgy Laboratory
3. Present Visitor's Pass for signature. Receive signed Visitor's Pass	3.1 Sign and return Visitor's Pass	None	1 minute	- same as step 2 -
4. Proceed to Cashier's Office "Order of Payment (O.P.)" Window and present the JO for payment.	4.1 Receive and Review the JO. 4.2 Create O.P. manually. 4.3 Reflect invoice details or application of deposit if there is any. 4.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (OR).	None	10 minutes	<i>Administrative Officer IV</i> Financial Management Section <i>Or</i> <i>Administrative Officer V</i> Financial Management Section
5. Pay the required fee (if paying in cash) and Receive OR, copy of JO stamped "PAID"	5.1 Receive documents and process Official Receipt based on the O.P. 5.2 Receive payment (cash) Stamp "PAID" all documents.	As quoted. Please refer to "Table of Fees" at the end of this table.	5 minutes	Administrative Officer V Administrative and General Services Section <i>or</i> Administrative Officer II Administrative and General Services Section



	<p>If payment is in the form of check, review the check as to amount, date and signatory.</p> <p>5.3 Release to Client O.R. and all billing documents except accounting copy.</p>			
6. None	6.1 Laboratory staff to prepare pertinent travel documents, conduct metallographic replication, and prepare Test Reports/Certificates.	None	14 days (exclusive of travel time, safety orientation and other required plant/company procedures)	- same as step 2 -
7. Present copy of JO, OR, and other applicable documents at Physical Metallurgy Lab, Titanium Building. Sign laboratory's file copy of test reports/certificates and "Items retrieved by:" portion of laboratory's file copy of JO.	<p>7.1 Check JO and OR.</p> <p>7.2 Record OR No. and Amount on JO (Phys Met copy) and return OR to client.</p> <p>7.3 Issue Test Reports/Certificates</p>	None	30 minutes	- same as step 2 -



Receive test reports/certificates and samples.	7.4 Return samples to Client			
8. Fill out Customer/Client Satisfaction Survey Form and submit to Phys Met staff	8.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	- same as step 2 -
9. Present MIRDC Visitor's Pass for signature. Receive signed Visitor's Pass.	9.1 Sign and return MIRDC Visitor's Pass	None	1 minute	- same as step 2 -
		TOTAL	19 days, 1 hour and 12 minutes	



Table of Fees

Physical Metallurgy	Cost/sample
1. Metallurgical Sample Preparation	
Cutting	140.00
Mounting	
Hot Mounting	80.00
Cold Mounting	360.00
Metallographic Grinding	400.00
Metallographic Polishing	350.00
Etching	120.00
2. Macroexamination	1,850.00
3. Metallography (inclusive of grinding, polishing. Etching; and one (1) high magnification photo and one (1) low magnification photo per test point)	
Plain Carbon Steel	1,600.00
Cast Iron	2,000.00
Aluminum/Aluminum Alloy	2,050.00
Copper/Copper Alloy	2,200.00
Thickness of Coating	2,200.00
Stainless Steel	2,250.00
Low Alloy Steel/High Alloy Steel	2,250.00
Boiler Tubes	2,500.00
Galvanized Sheet	2,500.00
Multi-layered Bearings	2,600.00
Weldments	3,500.00
Lead/Lead Alloy	3,800.00
4. Photomicrography (per additional photograph)	80.00



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
Up to ten (10) samples can be prepared and replicated per day for easy to etch samples.	Appropriate number of days will be added for every additional samples.	Requesting plant/ company	<p>A maximum of 50 samples can be prepared and replicated for the estimated five (5) days conduct of metallographic replication.</p> <p>For difficult to etch samples, abovementioned number of samples may not be attained.</p>
Client requested additional samples during actual conduct of job.	<p>Client must inform immediately the Physical Metallurgy thru e-mail for any additional or deviation from original agreement.</p> <p>Client must execute additional job order.</p>	Physical Metallurgy Laboratory	Appropriate number of days will be added to the original target date of completion.
Internal client avails the service	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	<p>Steps 3, 4, 5 and 9 are not applicable to internal clients.</p> <p>For step 6, travel documents are not needed for services availed by internal clients.</p> <p>For step 7, only the copy of the JO is needed for claiming of results.</p>
<p>Total processing time does not include the time allotted by client in reviewing the quotation prior to signing of Job Order and the travel time from MIRDC to plant/company and vice versa for the actual conduct of job.</p>			



C. Physical Metallurgy Laboratory Services - Metals Certification/Classification

This process determines the most probable type and grade of a metal sample given the result of chemical analysis and based on available reference standard.

Office/Division:	Materials and Process Research Division	
Classification:	Complex	
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government	
Who may avail:	All	
	CHECKLIST OF REQUIREMENTS	WHERE TO SECURE
	1. Submission of chemical analysis results	
	1.1 If client has no chemical analysis result of the sample yet, submit sample/s to MIRDC-ATD-DHO Centralized Receiving area. Follow ATD-DHO procedure on Chemical Analysis and Metals Identification services.	Company/Industry requesting for testing (sample for chemical analysis and metals identification)
	1.2 If client has chemical analysis result, proceed to Physical Metallurgy Laboratory, Materials Research Section	Company/Industry requesting for testing
	1.3 For students (who will pay for the service): Write a letter (using the school's letterhead) addressed to the Executive Director requesting for discount, endorsed by adviser. Provide one (1) copy to Physical Metallurgy Lab and bring School ID	School/University where the student is enrolled
	1.4 For Senior Citizens (who will pay for the service as an individual): Bring Senior Citizen's ID or valid ID with birthdate	Local Government Unit
	2. Claiming of test certificates	
	2.1. One (1) Original or Photocopy of issued Job Order (JO)	Physical Metallurgy, Titanium Building
	2.2. One (1) Original or Photocopy of issued Official Receipt/Confirmation Receipt	Cashier Office, MIRDC-Finance and Administrative Division (FAD)
	2.3. One (1) Original or Photocopy of Authorization Letter (for person other than Company's representative)	Company requesting for testing
	2.4. One (1) Company ID/School ID and/or one (1) government issued ID	Company requesting for testing



CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
<p>1. Submit chemical analysis result and other applicable requirements to Physical Metallurgy, Titanium Building.</p> <p>Provide the information requested by the attending staff to generate job order/s.</p> <p>Review and sign two (2) copies of Job Order (JO).</p> <p>Receive one (1) copy of JO.</p>	<p>1.1 Generate Job Order (JO) in two (2) copies.</p> <p>1.2 Review and Sign JO by Receiving staff.</p> <p>1.3 Issue a copy of JO to client.</p>	None	10 minutes	<p>Senior Science Research Specialist or Supervising Science Research Specialist, or Metals Technologist IV or Metals Technologist II</p> <p>Physical Metallurgy Laboratory</p>
<p>2. Present Visitor's Pass for signature.</p> <p>Receive signed Visitor's Pass.</p>	2.1 Sign and return Visitor's Pass	None	1 minute	- same as step 2 -
<p>3. Proceed to Cashier's Office "Order of Payment (O.P.)" Window and present the JO for payment.</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 6</p>	<p>3.1 Receive and Review the JO.</p> <p>3.2 Create O.P. manually.</p> <p>3.3 Reflect invoice details or application of deposit if there is any.</p> <p>3.4 Forward O.P. and other documents to Cashier for</p>	None	10 minutes	<p>Administrative Officer IV Financial Management Section Or Administrative Officer V Financial Management Section</p>



	issuance of Official Receipt (OR).			
4. Pay the required fee (if paying in cash) and Receive OR, copy of JO stamped "PAID"	<p>4.1 Receive documents and process Official Receipt based on the O.P.</p> <p>4.2 Receive payment (cash) Stamp "PAID" all documents. If payment is in the form of check, review the check as to amount, date and signatory.</p> <p>4.3 Release to Client O.R. and all billing documents except accounting copy.</p>	Php 750.00 per sample	5 minutes	<i>Administrative Officer V Administrative and General Services Section or Administrative Officer II Administrative and General Services Section</i>
5. None	5.1 Laboratory staff to perform job and prepare Test Certificates.	None	3 days	<i>Senior Science Research Specialist or Supervising Science Research Specialist Physical Metallurgy Laboratory</i>
6. Present copy of JO, OR, and other applicable documents at Physical Metallurgy Lab, Titanium Building.	<p>6.1 Check JO and OR.</p> <p>6.2 Record OR No. and Amount on JO (Phys Met copy) and</p>	None	5 minutes	- same as step 1 -



Sign laboratory's file copy of test reports/certificates. Receive test reports/certificates and samples.	return OR to client. 6.3 Issue Test Reports/ Certificates.			
7. Fill out Customer/Client Satisfaction Survey Form and submit to Phys Met staff	7.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	- same as step 2 -
8. Present MIRDC Visitor's Pass for signature. Receive signed Visitor's Pass.	8.1 Sign and return MIRDC Visitor's Pass	None	1 minute	- same as step 2 -
		TOTAL	3 days and 37 minutes	

Table of Fees

Physical Metallurgy	Cost/sample
1. Metal Classification/Certification (per sample)	750.00



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
<p>Up to five (5) samples of the same material type and reference standard can be performed without additional days.</p> <p>Or</p> <p>Up to two (2) samples of different material type and/or reference standard can be performed without additional days.</p>	Appropriate number of days will be added for every additional samples.	Physical Metallurgy Laboratory	None
Client avails chemical analysis service from ATD-DHO.	Client can obtain JO even without chemical analysis results.	Physical Metallurgy Laboratory, Titanium Building	ATD-DHO will release the chemical analysis results directly to the Physical Metallurgy Laboratory staff once completed.
Internal client avails the service	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	Steps 2, 3, 4 and 8 are not applicable to internal clients. For step 6, only the copy of the JO is needed for claiming of results.
Students request for a 20% discount.	Same procedure applies.	Physical Metallurgy Laboratory, Titanium Building	<p>The discounts are automatically granted provided that</p> <ol style="list-style-type: none"> 1. They can provide one (1) copy of a letter addressed to the Executive Director, endorsed by their adviser, requesting for discount, as well



			<p>as their School ID.</p> <p>2. They are paying for the service individually (not through school or company).</p>
<p>Senior citizen's request for a 20% discount.</p>	<p>Same procedure applies.</p>	<p>Physical Metallurgy Laboratory, Titanium Building</p>	<p>The discounts are automatically granted provided that</p> <p>1. They can present their senior citizen's ID or any government issued ID bearing their birthdate</p> <p>2. They are paying for the service individually (not through company).</p>



OFFICE OF THE EXECUTIVE DIRECTOR

External Services



I. MOLD TECHNOLOGY SUPPORT CENTER



A. Metalworking Services

Metalworking is the processing of ferrous and non-ferrous materials into useful products. The center utilizes conventional and specialized machining processes in the development of tools, dies, molds, jigs and fixtures, and other components/parts.

Metal working services in MTSC include conventional lathe machining, conventional milling, 3-axis CNC milling, Electrical Discharge Machining (Wirecut and Sinker), Plastic Injection, Grinding, Mold Repair (Laser/TIG Welding), and Dimensional Inspection (CMM). MTSC also offers rental of facilities and machines to mold and die companies through time-sharing schemes.

FACILITIES AND CAPABILITIES:

Machining Centers – are advanced computer-controlled machine tools used for machining of parts, usually metal, by material removal.

MTSC has the following facilities:

- Machining Center 12K rpm, Sirius 1250
- Machining Center 20K rpm, Sirius-UL+
- Machining Center 32K rpm, Sirius-UM+

Plastic Injection Molding Machine – is a machine for manufacturing plastic products by injecting molten plastic to a mold. The process is known to be an injection molding process. MTSC has three plastic injection machines, all electric and horizontal types with the capacity of 110T, 220T, and 350T.

Surface Grinding Machine – is a machine tool that uses a grinding wheel for removing the material from the surface of the workpiece to provide precision ground surfaces, either to a critical size or to a surface finish.

MTSC has three surface grinding machines of different sizes.

Electrical Discharge Machining (EDM) – is a process of removing material from a workpiece using a rapid sequence of electrical discharges between the dielectric fluid and submerge electrodes.

MTSC has EDM Wirecut and EDM Sinker.

The Mold Technology Support Center (MTSC) is also equipped with conventional machines like lathe machine, drilling machine, and milling machine. It also has its own quality assurance laboratory with 3D Coordinate Measuring Machine (CMM) and measuring microscope. MTSC has the capability to do mold repairs using laser and TIG Welding.



1. Job processing (Actual Time)

Office/Division:		Office of the Deputy Executive Director for Research and Development – Mold Technology Support Center		
Classification:		Highly Technical		
Type of Transaction:		G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government		
Who may avail:		All		
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE		
<ol style="list-style-type: none"> 1. Product Drawing (preferably in 2D or 3D) and Specifications 2. Sample Product / Workpiece 3. Casting Pattern, if needed 4. Customer-supplied Materials and Toolings. 		Company/Industry requesting for use of facilities with the Center's personnel to operate the required facilities		
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Proceed to MTSC and provide the sample product or product drawing and specifications. Inquire about the availability of required facility/ies and machine operator/s.	<ol style="list-style-type: none"> 1.1 Evaluate the product sample or product drawing if within the Center's capability. 1.2 Check and evaluate customer supplied materials. 1.3 Determine the scope of work, required process/es, available machine/s, operators, & tools. 	none	30 minutes	<i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Science Research Specialist II</i> or <i>Science Research Specialist II, MTSC</i>



	1.4 Inform the customer on the schedule of fees.			
2. Request for actual time of service	2.1 Prepare and issue Technical Service Request (TSR) form.	none	5 minutes	<i>Project Technical Assistant I, or Science Research Specialist II or Science Research Specialist II, MTSC</i>
3. Review and sign TSR and submit customer-supplied materials	3.1 Receive the materials, put proper labels, and store them in a designated area. 3.2 Provide (Prepare)the Property Entry & Exit Pass Slip (PEES)	none	20 minutes	<i>Project Technical Aide V or Project Technical Assistant I or Science Research Specialist II or Science Research Specialist II, MTSC</i>
4. Fill-up Property Entry/ Exit Slip (PEES) for all materials supplied / provided	4.1 Receive the filled up and signed PEES	none	10 minutes	<i>Project Technical Aide V or Project Technical Assistant I or Science Research Specialist II or Science Research Specialist II, MTSC</i>



<p>5. Concur the target completion date based on the TSR.</p>	<p>5.1 Determine Target Completion Date (TCD) and schedule the job.</p> <p>5.2 Issue job ticket for monitoring of job/s.</p>	<p>none</p>	<p>1 hour</p>	<p><i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Science Research Specialist II</i> or <i>Science Research Specialist II, MTSC</i></p>
<p>6. Monitor the status of job at mirdc.dost.gov.ph/tracking using the issued TSR as reference number</p>	<p>6.1 Process the job.</p> <p>6.2 Record the man-hour and machine hour utilized on the job tickets.</p>	<p>none</p>	<p>10 minutes + (Total time of machine/man-hour depends on the Target Completion Date (TCD) and machinist's skill)</p>	<p><i>Science Research Specialist II</i> or <i>Science Research Specialist II, MTSC</i></p>
<p>7. Secure PEES and DR.</p>	<p>7.1 Prepare DR for the completed job.</p>	<p>none</p>	<p>5 minutes</p>	<p><i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i></p>
<p>8. Proceed to the Cashier for payment.</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step</p>	<p>8.1 Receive and review the document presented.</p> <p>8.2 Create Order of Payment (O.P.) manually.</p> <p>8.3 Reflect application of deposit if necessary.</p>	<p>none</p>	<p>10 minutes</p>	<p><i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Supervising Science Research Specialist, MTSC</i></p>



	8.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (O.R.).			
<p>9. Pay the required fee and receive OR, copy of DR and other billing documents</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp</p>	<p>9.1 Receive documents and process OR based on the OP. Indicate details e.g., TIN, address, business style, if required by customer.</p> <p>If payment is in the form of a check, review the check as to amount, date and signatory.</p> <p>9.2 Receive payment. Stamp "PAID" all documents.</p> <p>9.3 Release OR and all billing documents except accounting copy.</p>	As stated in the Order of Payment	5 minutes	<i>Project Technical Aide V or Project Technical Assistant I or Supervising Science Research Specialist, MTSC</i>
10.1 Present the OR and the stamped DR	10.1 Record the OR number and update the ONeshop upon	None	10 minutes	<i>Project Technical Aide V or</i>



10.2 Inspect the finished product/sample	the release of the items. 10.2 Release the finished product/sample and stamp the DR "released"			<i>Project Technical Assistant I, MTSC</i>
11. Fill up the Survey Questionnaire using the Customer/ Client Satisfaction Survey Form	11.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form.	None	5 minutes	<i>Project Technical Aide V or Project Technical Aide VI, or Project Technical Assistant I MTSC</i>
12. Give the PEES and the copies of DR to the guard upon exit at MTSC	12.1 Inspect the product and materials brought in based on the entry pass presented. 12.2 Record on the logbook.	None	5 minutes	Security Officer and Security Guard, MTSC
		TOTAL	2 hours and 55 minutes + total machine and man-hours	

2. Service Request on Job Processing (Quoted Jobs)

Office/Division:	Office of the Deputy Executive Director for Research and Development – Mold Technology Support Center	
Classification:	Highly Technical	
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government	
Who may avail:	All	
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE
1. Technical Drawing and Specifications 2. Sample Product		1-3. Company/Industry requesting for Machining and Fabrication



<p>3. Production Materials 4. PWD/Senior Citizen's ID for availing of discount. 5. Letter request for a discount for students. 6. Approved Quotation</p>	<p>4. Government Issued ID 5. School/University where the student is enrolled. 6. MTSC Office</p>			
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
<p>1. Proceed to MTSC. Present the client-approved technical drawing.</p>	<p>1.1 Review the approved technical drawing. 1.2 Stamp "approved" if technical drawing is acceptable, else redraw. 1.3 Prepare and issue TSR.</p>	<p>None</p>	<p>10 minutes</p>	<p><i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Science Research Specialist II</i> or <i>Science Research Specialist II, MTSC</i></p>
<p>2. Review and sign TSR and submit customer-supplied materials</p>	<p>2.1 Check the submitted materials, put proper labels and store them in a designated area. 2.2 Issue the Property Entry/Exit Pass Slip (PEES)</p>	<p>None</p>	<p>10 minutes</p>	<p><i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Science Research Specialist II</i> or <i>Science Research Specialist II, MTSC</i></p>
<p>3. Fill-out Product Entry Exit Slip (PEES) for all materials supplied.</p>	<p>3.1 Receive the filled out and signed PEES 3.2 Forward the documents and materials to the shop. 3.4 Endorse to shop for</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Science Research Specialist II</i> or <i>Science Research Specialist II,</i></p>



	determination of Target Completion Date (TCD) and scheduling.			MTSC
4. Monitor the status of job at mirddc.dost.gov.ph/tracking using the issued TSR as reference number	4.1 Execute the job.	None	10 minutes + (Total time of machine/man-hour depends on the Target Completion Date (TCD) and machinist's skill)	<i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Science Research Specialist II</i> or <i>Science Research Specialist II, MTSC</i>
5.1 Present the TSR. 5.2 Retrieve PEES and DR.	5.1 Prepare DR for the completed job based on TSR.	none	10 minutes	<i>Project Technical Aide V</i> or <i>Project Technical Assistant I, MTSC</i>
6. Proceed to the Cashier for payment. For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 8	6.1 Receive and review the document presented. 6.2 Create Order of Payment (O.P.) manually. 6.3 Reflect application of deposit if necessary. 6.4 Forward O.P. and other documents to Cashier.	none	10 minutes	<i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Supervising Science Research Specialist II, MTSC</i>
7. Pay the required fee and receive OR, copy of DR and other billing documents	7.1. Receive documents and process OR based on the	As stated in the	7 minutes	<i>Project Technical Aide V</i> or



	<p>OP. Indicate details e.g., TIN, address, business style, if required by customer.</p> <p>If payment is in the form of a check, review the check as to amount, date and signatory.</p> <p>7.2. Receive payment (cash/check). Stamp "PAID" all documents.</p> <p>7.3. Release OR and all billing documents but keep the accounting copy.</p>	Order of Payment		<p><i>Project Technical Assistant I</i> or <i>Supervising Science Research Specialist II,</i> MTSC</p>
<p>8. Proceed to the shop and present the Official Receipt/Confirmation Receipt and the stamped DR</p> <p>9.1 Inspect the product.</p>	<p>8.1 Record the OR number and update the "ONEShop" for the release of the items</p> <p>9.1 Release the product and stamp the DR "RELEASED"</p>	None	10 minutes	<p><i>Project Technical Aide V</i> or <i>Project Technical Assistant I,</i> MTSC</p>



10. Fill up the Survey Questionnaire using the Customer/Client Satisfaction Survey Form	10. Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	<i>Project Technical Aide V</i> or <i>Project Technical Assistant I,</i> MTSC
11. Give the PEES and the copies of DR to the guard upon exit at MTSC	11.1 Inspect the product and materials brought in based on the entry pass presented. 11.2. Record on the logbook.	None	5 minutes	Security Officer and Security Guard, MTSC
	TOTAL		82 minutes + total machine and man-hours	

3. Use of Facility/Equipment (Time Sharing Jobs)

Office/Division:	Office of the Deputy Executive Director for Research and Development – Mold Technology Support Center (MTSC)		
Classification:	Complex		
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government		
Who may avail:	All		
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE	
1. Qualifications of Machinist 2. Machine Requirements (type of machine and duration of use) 3. Raw materials, tools, and accessories (as needed) 4. Certification for Operator’s Competency		1-3. Customer requesting for rental of facilities 4. MTSC Staff	



CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Inquire about the availability of the required facility to MTSC staff.	<p>1.1 Determine the required type of machine/s and duration of use.</p> <p>1.2 Check the availability of machines and tools to be used.</p> <p>1.3 Inform customers of the schedule of fees.</p>	none	15 minutes	<i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Science Research Specialist II</i> or <i>Science Research Specialist II,</i> MTSC
2. Request for the use of the facility.	2.1 Prepare and issue Technical Service Request (TSR) form.	none	5 minutes	- same as step 1 –
3. Review and sign TSR.	3.1 Issue Request for Issuance of Official Receipt for Time Sharing Jobs and request the customer to proceed to Cashier for payment of deposit for the Machine Bond.	None	5 minutes	<i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Supervising Science Research Specialist,</i> MTSC
4. Proceed to the Cashier for payment of Machine Bond and show Official Receipt to MTSC staff.	<p>4.1 Review and record the O.R. number in the Technical Service Request Form</p> <p>4.2 Issue Property Entry-Exit Slip (PEES).</p>	P2,500 deposit for every machine to be used	10 minutes	- same as step 3 –



<p>5. Bring in raw materials, other tools, and accessories.</p>	<p>5.1 Inspect and document the materials, put proper labels, and store them in a designated area.</p> <p>5.2 Provide the Property Entry & Exit Pass Slip (PEES)</p>	<p>none</p>	<p>30 minutes</p>	<p><i>Metals Technologist IV</i> or <i>Science Research Specialist II</i> or <i>Science Research Specialist II,</i> <i>MTSC</i></p>
<p>6. Fill out Property Entry-Exit Slip (PEES) for all materials brought in.</p>	<p>6.1 Receive the filled-out and signed PEES</p> <p>6.2 Forward the TSR to the shop.</p>	<p>none</p>	<p>5 minutes</p>	<p><i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Science Research Specialist II</i> or <i>Science Research Specialist II,</i> <i>MTSC</i></p>
<p>7.1 Proceed to the designated MTSC machine, for orientation and validation of machinist's skill.</p> <p>7.2 Fill out and submit the Authorization Slip for Machine Utilization after using the machine (daily basis) to MTSC Staff.</p>	<p>7.1 Validate and approve the Authorization Slip for Machine Utilization</p> <p>7.2 Fill up Billing Slip for Time Sharing Job Order.</p>	<p>None</p>	<p>10 minutes (Total time of machine utilization depends on the customer's product and operator's efficiency)</p>	<p><i>Metals Technologist IV</i> or <i>Science Research Specialist II</i> or <i>Science Research Specialist II,</i> or <i>Senior Science Research Specialist,</i> <i>MTSC</i></p>



8. Secure PEES and DR.	8.1 Prepare Delivery Receipt (DR)	None	5 minutes	<i>Project Technical Aide V or Project Technical Assistant I, MTSC</i>
9. Proceed to the Cashier for payment. For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 11	9.1 Receive and review the document presented. 9.2 Create Order of Payment (O.P.) manually. 9.3 Reflect application of deposit if necessary 9.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (O.R.).	none	10 minutes	<i>Project Technical Aide V or Project Technical Assistant I or Supervising Science Research Specialist, MTSC</i>
10. Pay the required fee and receive OR, copy of DR and other billing documents.	10.1 Receive documents and process OR based on the OP. Indicate details e.g., TIN, address, business style, if required by customer. If payment is in the form of a check, review the check as to amount, date and signatory. 10.2 Receive payment. Stamp "PAID" all documents. 10.3 Release OR and all billing documents except accounting copy.	As stated in the Order of Payment	5 minutes	<i>- same as step 9 –</i>



11. Retrieve product and materials brought in and present the OR and stamped DR.	11.1 Record the OR number and indicate in the “ONESHop” the release of the items 11.2 Stamp the DR “RELEASED”	None	10 minutes	<i>Project Technical Aide V</i> or <i>Project Technical Assistant I,</i> MTSC
12. Fill up the Survey Questionnaire using the Customer/Client Satisfaction Survey Form	12.1 Collect and file the filled-out Customer/ Client Satisfaction Survey Form.	None	5 minutes	<i>Project Technical Aide V</i> or <i>Project Technical Assistant I</i> or <i>Project Technical Aide VI,</i> MTSC
13. Give the PEES and the copies of DR to the guard upon exit at MTSC	13.1 Inspect the product and materials brought in based on the entry pass presented. 13.2 Record on the logbook.	None	5 minutes	<i>Security Officer</i> or <i>Security Guard,</i> MTSC
			TOTAL	2 hours

Note: The issuance of Certificate of Competency for operators varies depending on the present skills of the applicant.



Schedule of Fees

Metal Working Technology Services		Rate per hour*	
I.	CNC MACHINES	Time Sharing	Actual Time
	CNC EDM Wirecut (SPM)	₱870.00	₱1050.00
	CNC EDM Sinker (UNITECH)	₱540.00	₱720.00
	CNC Milling Machine (12000 rpm)	₱1380.00	₱1560.00
	CNC Milling Machine (20000 rpm)	₱1200.00	₱1390.00
	CNC Milling Machine (32000 rpm)	₱1390.00	₱1580.00
II.	DIE AND MOLD REPAIR		
	Laser Welding Machine	₱440.00	₱610.00
	TIG Welding	₱400.00	₱570.00
III.	MEASUREMENT AND QUALITY CONTROL		
	CMM	₱930.00	₱1,180.00
	Microscope	₱100.00	₱350.00
IV.	SURFACING MACHINES		
	Surface Grinder (Dae San DGS-520MB)	₱140.00	₱310.00
	Surface Grinder (Dae San DGS-2070 2S)	₱630.00	₱800.00
	Surface Grinder (Dae San DGS-1260A)	₱510.00	₱680.00
V	PLASTIC INJECTION MACHINES		
	Woojin Plaimm Injection Machine 110T	₱590.00	₱760.00
	Woojin Plaimm Injection Machine 220T	₱1060.00	₱1230.00
	Woojin Plaimm Injection Machine 350T	₱1590.00	₱1845.00
VI.	CONVENTIONAL MACHINE TOOLS		
	Lathe Machine	₱500.00	₱650.00
	Milling Machine	₱320.00	₱460.00
	Drilling Machine	₱210.00	₱360.00

*Note: * Harmonized with MIRDC Rates. Subject to adjustment once proposed MTSC Rates is approved by the MIRDC Governing Council.*



II. TECHNICAL SOLUTIONS SERVICES SECTION



A. Metalcasting, Metalworking and Heat Treatment Jobs

1. Metalcasting

The MIRDC specializes in metalcasting of ferrous and non-ferrous alloys. Using specialized metalcasting technologies such as investment casting and conventional casting capabilities, MIRDC undertakes prototype production of engineered and decorative products. Likewise, casting product localization, alloy formulation can also be accommodated through contract research activity. MIRDC also offers rental of facilities to SME's through a time-sharing scheme.

FACILITIES AND CAPABILITIES:

Conventional Casting Section

Patternshop - capable of producing wood, polymer and metal patterns.

Molding Shop - employs furan molding process using a 4-ton capacity continuous mixer.

Melting Shop - Consists of:

- crucible furnace for melting non-ferrous alloys with the following capacities:
 - 50 kg
 - 100 kg
- high frequency induction furnaces capable of melting ferrous alloys, with the following capacities:
 - 50 kg (non-ferrous)
 - 50 kg (ferrous)
 - 100 kg
 - 150 kg

Precision Casting

Investment Casting (Ceramic Shell Process) - This process involves dipping the entire cluster of heat-disposable pattern into a ceramic slurry and coating with ceramic material until a self-supporting shell has been formed. The coated cluster is then dewaxed, fired at high temperature and poured with molten metal. MIRDC has complete facilities for this process.

Shell Molding - This process produces castings with relatively accurate and smooth surfaces. Cores and molds are considerably strong and can be easily mass produced. MIRDC has the following facilities:

- Resin Coated Sand Mixer - cold sand high speed mixer with a capacity of 60 kg per batch
- 3 Shell Core Shooters
- 3 Shell Molding Machines



Casting Design and Process/Quality Control Capabilities:

In order to attain its quality objectives and meet the specified requirements of the customers, MIRDC utilizes different control and testing equipment to ensure the quality of cast products.

Sand Testing Equipment

- Compressive Strength
- Moisture Teller
- Permeability Meter
- Mold Hardness Tester
- Bending Strength Tester
- Rotap Machine
- Clay Content Determinator

Metallurgical Microscope – Olympus

Pyrometers

- Immersion Type
 - Type K, -70 - 1370°C
 - Type S, 25 - 1770°C

Aside from short series experimental production and product development, MIRDC also offers time-sharing of its facilities to foundries with limited capabilities.

2. Metalworking and Plastic Injection

Metalworking is processing metals and metal products to create individual parts. The Center utilizes conventional and specialized machining processes in the development of tools, dies, molds, jigs and fixtures, and components.

Metalworking in MIRDC includes conventional machining (lathe and milling), CNC lathe machining, CNC milling, 5-axis machining, gear hobbing, Electrical Discharge Machining (EDM), Grinding, Mold Repair, Dimensional Inspection, and Welding Processes (SMAW, GMAW, GTAW).

Also, the center provides plastic injection services using 80 tons, 150 tons and 350 tons capacity plastic injection machines.

3. Heat Treatment

The Center offers (1) Vacuum Heat Treatment and (2) Conventional Heat Treatment to enable MSMEs to meet prevailing and future requirements of the M&E industries.



MIRDC's heat treating capability includes:

- direct hardening
- case hardening (pack carburizing)
- softening processes (tempering, annealing, normalizing, stress relieving)

1. Metal Processing (Actual Time)

Office/Division:	Office of the Deputy Executive Director for Research and Development - Technical Solutions Services Section (TSSS)			
Classification:	Highly Technical			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE		
1. Product Drawing (preferably in 2D or 3D) and Specifications 2. Products / Sample / Workpiece 3. Casting Pattern, if needed 4. Customer-supplied Materials and Toolings 5. Required Parameters / Product Specifications for Heat Treatment Jobs 6. Permits and Licences for Munitions Fabrication		Company/Industry requesting for service		
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Proceed to the TSSS Office and secure Technical Service Request (TSR) for Actual Time.	1.1 Check and evaluate customer supplied materials and determine the scope of work	None	25 minutes	<i>Science Research Specialist II</i> or <i>Production Cost Estimator III</i> or <i>Metals Technologist III, TSSS</i>
	1.2 Prepare and issue Technical Service Request (TSR) form.	None	15 minutes	
	1.3 Review and Sign TSR	None	5 minutes	



2. Review and sign TSR	2.1 Receive signed TSR	None	1 minute	Science Research Specialist II or Production Cost Estimator III or <i>Metals Technologist III</i> , TSSS
	2.2 Issue Property Entry & Exit Slip (PEES)	None	5 minutes	
3. Fill-out the Entry Portion of the Property Entry Exit Slip (PEES) for all materials supplied / provided and submit the customer-supplied materials	3.1 Receive, review and sign the filled-out PEES (Entry).	None	5 minutes	Production Cost Estimator III or Production Cost Estimator III or Metals Technologist III, TSSS
	3.2 Receive the materials, put proper labels and store them in a designated area.	None	20 minutes	
4. Track the status of service request at mirdc.dost.gov.ph/tracking using the issued TSR as reference number, or through MOCG telephone number or email address	4.1 Process the technical service request.	None	15 days	Metals Technologist I or Metals Technologist II or Metals Technologist III or Metals Technologist IV or Metals Technologist V or Sup. Science Research Specialist or Sr. Science Research Specialist or Science Research Specialist II, TSSS
	4.2 Retrieve the job tickets for the completed job	None	10 minutes	
	4.3 Update the Oneshop System once the TSR is completed and ready for release.	None	5 minutes	



<p>5.1 To get the finished product, proceed to the TSSS Office and present the TSR.</p> <p>5.2 Secure PEES. Fill-out the Exit Portion of the PEES for all materials/ supplies to be retrieved.</p> <p>5.3 Secure Delivery Receipt (DR).</p>	<p>5.1 Validate TSR</p> <p>5.2 Receive and review PEES (Exit).</p> <p>5.3. Compute the actual cost and prepare DR based on job tickets.</p> <p>Actual Cost = No. of Hours Machine is used x Actual Time Rate of Machine + No. of Man-hours x Man Rate</p> <p>5.4 Approve and sign the DR</p>	<p>(Refer to Prescribed Machine Rates for MIRDC Facilities-2019 as approved by the OSEC)</p>	<p>1 minute</p> <p>2 minutes</p> <p>5 minutes</p> <p>3 minutes</p>	<p>Science Research Specialist II or Production Cost Estimator III or Metals Technologist III or Metals Technologist III, TSSS</p>
<p>6. Proceed to the Cashier's Office "Order of Payment" Window and present the DR.</p>	<p>6.1 Receive and review the document presented.</p> <p>6.2 Create Order of Payment (O.P.) manually.</p> <p>6.3 Reflect invoice details or application of deposit if there is any;</p> <p>6.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (O.R.).</p>	<p>None</p>	<p>10 minutes</p>	<p>Administrative Officer IV, Financial Management Section or Administrative Officer V, Financial Management Section</p>
<p>7. Pay the required fee and</p>	<p>7.1. Receive documents and</p>	<p>As stated in the</p>	<p>5 minutes</p>	<p>Administrative Officer V</p>



receive OR, copy of DR and other billing documents	<p>process OR based on the OP. Indicate details e.g., TIN, address, business style, if required by customer.</p> <p>If payment is in the form of a check, review the check as to amount, date and signatory.</p> <p>7.2 Receive payment. Stamp "PAID" all documents.</p> <p>7.3 Release OR and all billing documents except accounting copy.</p>	Order of Payment		Administrative and General Services Section or Administrative Officer II Administrative and General Services Section
8.1 Proceed to TSSS and present the OR and the stamped DR	8.1 Record the OR number, stamp the DR "released", and update the ONEShop upon the release of the items	None	5 minutes	Science Research Specialist II or Production Cost Estimator III or Metals Technologist III
8.2 Inspect the finished product/sample	8.2 Release the finished product/sample and give the PEES (exit) to customer	None	5 minutes	Metals Technologist III or Metals Technologist III, TSSS
9. Fill up the Customer/Client Satisfaction Survey Form	9.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	Science Research Specialist II or Production Cost Estimator III or Metals Technologist III or



				Metals Technologist III, MTSC
10. Present to the gate guard the Property Entry/Exit Slip and Delivery Receipt	10.1 Check the Property Entry/ Exit Slip and the items to be taken out	None	2 minutes	Security Guard on duty MIRDC
	TOTAL	15 days, 2 hours and 14 minutes		

2. Metal Processing (Quoted Jobs)

Office/Division:	Office of the Deputy Executive Director for Research and Development - Technical Solutions Services Section (TSSS)			
Classification:	Highly Technical			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
<ol style="list-style-type: none"> 1. Technical Drawing and Specifications 2. Product / Sample / Workpiece 3. Permits and Licenses for Munitions Fabrication 4. Production Materials 5. PWD/Senior Citizen's ID for availment of discount 6. Letter request for discount for student 7. Approved MIRDC Quotation 			<ol style="list-style-type: none"> 1-4. Company/Industry requesting for the service 5. Government Issued ID 6. School/University where student is enrolled 7. TSSS Office 	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Proceed to the TSSS Office. Present the approved quotation and technical drawing and request for TSR.	1.1 Verify the quotation and technical drawing.	None	2 minutes	Science Research Specialist II or Production Cost Estimator III
	1.2 Check and evaluate customer supplied materials.	None	5 minutes	or Metals Technologist III, TSSS



	1.3 Prepare and issue TSR reflecting target completion date.	None	15 minutes	
	1.4 Review and sign the TSR	None	5 minutes	
2. Review and sign TSR and submit customer-supplied materials.	2.1 Receive signed TSR	None	1 minute	
	2.2 Issue the Property Entry & Exit Slip (PEES)	None	5 minutes	
3. Fill-out the Entry Portion of the Product Entry Exit Slip (PEES) for all materials supplied/ provided.	3.1 Receive the filled out and signed PEES (Entry)	None	5 minutes	Science Research Specialist II or Production Cost Estimator III or Metals Technologist III or Metals Technologist III, TSSS
	3.2 Receive the materials, put proper labels and store them in a designated area.	None	20 minutes	
	3.3 Forward the documents and materials to the shop.	None	1 hour	
4. Track the status of service request at mirdc.dost.gov.ph/tracking using the issued TSR as reference number, or through	4.1 Process the technical service request.	None	15 days and 5 minutes	Metals Technologist I or Metals Technologist II or Metals Technologist III or Metals Technologist IV
	4.2 Update the Oneshop System once the TSR is completed and ready for release.	None	5 minutes	



MOCG telephone number or email address				or Metals Technologist V or Sup. Science Research Specialist or Sr. Science Research Specialist or Science Research Specialist II, TSSS
5.1 To get the finished product, proceed to the TSSS Office and present the TSR.	5.1 Validate TSR	(Refer to Prescribed Machine Rates for MIRDC Facilities-2019 as approved by the OSEC)	1 minute	<i>Science Research Specialist II</i> or <i>Production Cost Estimator III</i> or <i>Metals Technologist III,</i> TSSS
5.2 Secure PEES. Fill-out the Exit Portion of the PEES for all materials/ supplies to be retrieved.	5.2 Receive and review PEES (Exit).		2 minutes	
5.3 Secure Delivery Receipt (DR).	5.3 Prepare DR based on the approved quotation.		5 minutes	
	5.4 Approve and sign the DR		3 minutes	Sup. Science Research Specialist
6. Proceed to the Cashier's Office "Order of Payment" Window and present the DR. For online payment go to: https://www.lbp-	6.1 Receive and review the document presented. 6.2 Create Order of Payment (O.P.) manually. 6.3 Reflect invoice details or	None	10 minutes	Administrative Officer IV, Financial Management Section or Administrative Officer V, Financial Management Section



eservices.com/e-gps/portal/index.jsp	<p>application of deposit if there is any;</p> <p>6.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (O.R.).</p>			
<p>7. Pay the required fee and receive OR, copy of DR and other billing documents</p>	<p>7.1 Receive documents and process OR based on the OP. Indicate details e.g., TIN, address, business style, if required by customer.</p> <p>If payment is in the form of a check, review the check as to amount, date and signatory.</p> <p>7.2 Receive payment. Stamp "PAID" all documents.</p> <p>7.3 Release OR and all billing documents except accounting copy.</p>	<p>As stated in the Order of Payment</p>	<p>5 minutes</p>	<p>Administrative Officer V, Administrative and General Services Section or Administrative Officer II, Administrative and General Services Section</p>
<p>8.1. Proceed to TSSS and present the OR and the stamped DR</p>	<p>8.1 Record the OR number, stamp the DR "released", and update the ONEShop upon</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Science Research Specialist II</i> or <i>Production Cost Estimator III</i> or</p>



8.2. Inspect the finished product/sample	the release of the items 8.2 Release the finished product/sample and give the PEES (exit) to customer	None	5 minutes	<i>Metals Technologist III, TSSS</i>
9. Fill up the Customer/Client Satisfaction Survey Form	9.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	<i>Science Research Specialist II or Production Cost Estimator III or Metals Technologist III, TSSS</i>
10. Present to the gate guard the Property Entry/Exit Slip and DR	10.1 Check the Property Entry/Exit Slip and the items to be taken out	None	2 minutes	<i>Security Guard on duty MIRDC</i>
	TOTAL		15 days, 2 hours and 51 minutes	

SITUATION	ACTION	LOCATION OF ACTION	REMARKS
For Internal Technical Service Requests	Same procedure applies (as listed above)	TSSS Office	Internal Service Request will queue along with External Service Requests
For multiple job requests received within the day	Machining, Metal Fabrication, Metal Casting and Heat Treatment will be on scheduled basis depending on the availability of machine and personnel after completion of the prior job/s.	Shop	Queueing system (First in First out)



For complex products and the drawing contains more than 8 pages (A3 or A4 size paper)	Meeting with engineers and technician	TSS Office	Review of drawings will take longer time in order to visualize the product.
If the number of workpiece is more than 3 pcs / the size is more than 1 foot in length or width or height:	Assign additional machines of the same capability/capacity and operator. The Technical Service Request will be queued if the same type of machines are not available.	Shop	Machining Process will require longer set-up time and machining time
If the number of workpieces for Gear Making is more than 3 pcs / the size is more than 1 meter in length or width or height.	Assign additional machines of the same capability/capacity and operator. The Technical Service Request will be queued if the same type of machines are not available.	Shop	Gear Hobbing/ Welding Process will consume longer set-up time and machining time resulting to extended processing time
If the workpiece has multi-part features.	Meeting with engineers and technicians Assign additional programmer	TSS Office	Preparation (and analysis of gear using gear software KissSoft for (Gear Hobbing) and providing CAM program as required (with tooling inventory as reference to programming) / Prepare and analyze gear using gear software (KissSoft) and provide CAM program as required (with tooling inventory as reference to programming) will consume longer in designing , encoding, drawing and programming.



<p>If the number of workpiece is more than 3 pcs / the size is more than 1 foot in length or width or height:</p>	<p>Assign to additional QA machines and operators.</p> <p>The workpieces will queue if other QA machines are not available</p>	<p>QA Room</p>	<p>Set-up workpiece /Perform quality assurance procedure / Measurements of Job will consume longer set-up time and machining time</p>
<p>If corrective/preventive maintenance of machines is not implemented due to unavailability of spare parts locally</p>	<p>The technical service request will be queued pending completion of preventive or corrective maintenance of equipment</p>	<p>Shop</p>	<p>Communicate with the customer for possible extension of target delivery date of the technical service request</p>
<p>Customer supplied materials that need forklift or lifter</p>	<p>Coordinate with the forklift/lifter operator for the mobilization/acceptance of the materials</p>	<p>TSSS Office</p>	<p>Extended processing time for the receiving activity</p>
<p>For technical service request that falls on product development category and require multi-machining activities</p>	<p>Coordinate with shop for the multi-machining activities</p>	<p>Shop</p>	<p>Subject to queueing and extended machining process</p>
<p>New clients previously not included in the Oneshop database</p>	<p>Get client details and encode in the Oneshop database</p>	<p>TSSS Office</p>	<p>Extended processing time for the receiving activity</p>



Schedule of Fees

I	Foundry Services	As Quoted	
II	Metal Casting Services	Rate per Hour	
	A. Conventional Casting	Time Sharing	Actual Time
	1. Molding		
	Furan Mixer	670.00	810.00
	Sand Reclaimer	110.00	290.00
	Forklift	280.00	430.00
	2. Fettling		
	Shot Blasting	1,660.00	1,800.00
	Angle Grinder	100.00	275.00
	Pneumatic Chipping Hammer	210.00	630.00
	Silicon Arc Air Gouging Machine	3,550.00	3,700.00
	Oxyacetylene Kit	20.00	230.00
	3. Pattern Shop		
	Drill Press	80.00	260.00
	Bandsaw	80.00	260.00
	Wood Lathe	70.00	265.00
	Rotary Machine	50.00	245.00
	Bench Table Saw	80.00	260.00
	Wood Planer	170.00	320.00
	Disc Grinder	150.00	305.00
	B. Investment Casting		
	1. Wax Pattern		
	Wax Melting Tank	90.00	280.00
	Wax Curing Tank	120.00	290.00
	Wax Injection Machine	100.00	330.00
	Hot Plate/Soldering Iron	110.00	280.00
	2. Ceramic Mold Making		
	Slurry Mixer with parts	130.00	300.00
	Fluidized Bed	70.00	240.00
	Dust Collector	80.00	260.00
	3. Dewaxing		
	Autoclave Machine	680.00	850.00
	4. Shellfiring		
	Shellfiring Furnace	130.00	405.00
	5. Fettling		



	Sand Blasting	200.00	370.00
	Knockoff Machine	160.00	350.00
	Cut-off Machine	210.00	380.00
	Denyu Belt Sander/Polishing	120.00	290.00
	Compressor (Sullair)	1,240.00	1,410.00
	C. Melting (Conventional/Investment)		
	50 Kg Induction Furnace - Non Ferrous	2,050.00	2,220.00
	50 Kg Induction Furnace - Ferrous	2,380.00	2,550.00
	100 Kg Induction Furnace (New)	3,530.00	3,700.00
	150 Kg Induction Furnace (New)	4,850.00	5,020.00
	150 Kg Induction Furnace (Old Inductotherm)	4,265.00	4,500.00
	250 Kg Induction Furnace (Old Inductotherm)	6,760.00	6,930.00
	500 Kg Induction Furnace (Old Inductotherm)	12,270.00	12,430.00
	Crucible Furnace	1,670.00	1,840.00
III	Heat Treatment		
	A. Conventional		
	Direct Hardening (without tempering)	PhP 2,060.00 (up to 25Kg); additional Php 82.00 per Kg above 25Kg	
	B. Pack Carburizing (without tempering)		
	Tempering/Stress Relieving	PhP 1,560.00 (up to 25Kg); additional Php 62.00 per Kg above 25Kg	
	Annealing/Normalizing	PhP 1,860.00 (up to 25Kg); additional Php 62.00 per Kg above 25Kg	
	C. Vacuum Heat Treatment		
	Hardening (without tempering)	PhP 15,100.00 (up to 30Kg); additional Php 500.00 per Kg above 30Kg	
	Tempering	PhP 7,600.00 (up to 30Kg); additional Php 250.00 per Kg above 30Kg	



Metal Working Technology Services		Rate per hour	
I.		Time Sharing	Actual Time
	Advance Machining, Tool and Die Shop		
	A. CNC MACHINES		
	CNC EDM Sinker (Sodick A50)	230.00	610.00
	CNC EDM Sinker (Mitsubishi EA12D)	540.00	860.00
	EDM Drill (Sodick K1C)	170.00	535.00
	EDM Drill (Oscarmax SD550)	230.00	590.00
	CNC EDM Wirecut (Sodick A500W)	570.00	930.00
	CNC EDM Wirecut (Robocut α-C600i)	870.00	1,180.00
	CNC Milling Machine (Mazak FJV25)	890.00	1,080.00
	CNC Milling Machine (Mazak VTC16)	840.00	1,020.00
	CNC Milling Machine (Mazak VCS 430A)	1,200.00	1,390.00
	CNC Milling Machine (Samsung Rhino LCV850)	1,380.00	1,560.00
	CNC Milling Machine - High Speed (Makino F5)	1,390.00	1,580.00
	CNC Milling Machine - CNC/Manual (Makino KE55)	750.00	940.00
	CNC Lathe w/ Milling Machine (Takisawa LA200M)	930.00	1,110.00
	CNC Lathe (Mazak QT6T)	740.00	920.00
	CNC Lathe (Mazak Quick Turn Smart 150s)	950.00	1,130.00
	CNC 5-Axis Milling (Mazak Variaxis j-600/5X)	1,800.00	2,010.00
	CNC 5-Axis Lathe (Mazak Integrex i-200)	1,930.00	2,150.00
	CNC 5-Axis Milling Machine (Okuma MU 6300V)	2,790.00	3,010.00
	B. DIE AND MOLD REPAIR		
	Laser Welding Machine (Sisma SWA150)	440.00	740.00
	Mould Repair (TechnoCoat MicroDepo)	220.00	555.00
	C. MEASUREMENT AND QUALITY CONTROL		
	CMM Robotic Arm (Romer Multi Gauge 6-Axis)	270.00	650.00
	CMM (Mitutoyo Beyond 504)	26.000	610.00
	CMM (Mitutoyo Crysta-Apex S 7106)	930.00	1,390.00
	Profile Projector (Sigmascope MT:500-933)	100.00	470.00
	D. GRINDERS		
	Surface Grinder - Big (Perfect PFG 80150AHR)	510.00	795.00
	Surface Grinder - Small (Perfect PFG 60100AHR)	440.00	740.00
	Surface Grinding Machine (Kuroda GS-62Z)	370.00	680.00
	Surface Grinding Machine (Jones and Shipman 540H)	140.00	515.00
	Cylindrical Grinding Machine (Palmary)	630.00	890.00



II.	PLASTIC INJECTION SHOP		
	I. PLASTIC INJECTION MACHINES		
	Sumitomo 80T	370.00	540.00
	Sumitomo 150T	590.00	760.00
	Sumitomo 350T	1,060.00	1,230.00
	Mitsui Pre-heating	90.00	325.00
	Plastic Crusher	80.00	330.00
III.	GEAR MAKING FACILITY		
	A. GEARMAKING MACHINES		
	CNC Gear Hobber (Mitsubishi GE 25A)	2,510.00	2,720.00
	CNC Gear Shaper (Mitsubishi ST 25CNC)	2,680.00	2,900.00
	CNC Gear Shaver (Mitsubishi FE30A)	1,670.00	1,880.00
	Gear Software (KISSSoft/KISSSys)	1,020.00	1,230.00
	CMM Gear Measuring System (Zeiss Duramax RT)	860.00	1,070.00
	Dynamic Balancer (CIMAT CMTI500HZP)	700.00	1,200.00
	Internal Broaching Machine (AXISCO CHI0510)	750.00	1,060.00
IV.	CONVENTIONAL MACHINING SHOP		
	A. CONVENTIONAL MACHINES		
	Turning (Lathe Machines)	500.00	650.00
	Milling (Milling Machines)	320.00	500.00
	Grinding (Grinding Machines)	210.00	370.00
	Drilling (Drilling Machines)	210.00	360.00
	Press working (Press working Machines)	200.00	350.00
	Fabrication (Fabrication Machines)	160.00	310.00
	SMAW (Welding Machines)	160.00	360.00
V.	WELDING AND FABRICATION SHOP		
	A. WELDING MACHINES		
	MIG/TIG-Welding (MillerDynasty 350)	240.00	410.00
	TIG-Welding (Miller Sychrowave 200)	260.00	430.00
	TIG-Welding (Miller Diversion 165)	210.00	380.00
	TIG-Welding (OTC-Accutig 300P)	400.00	570.00
	MIG/TIG-Welding (OTC-Digital Dyna Autp XD 350S)	470.00	630.00
	MIG/TIG-Welding (Miller Thunderbolt XL)S)	530.00	700.00
	Spot Welding Machine (Tecna)	490.00	660.00
	B. PRESSES AND ROLLERS		
	Power Press with Uncoiler (Chin Fong)	690.00	890.00
	Hydraulic Die Spotting Press (Taitian)	1,150.00	1,720.00
	Turret Punch Press (Amada)	1,520.00	2,470.00



	Press Brake (Amada RG-60)	450.00	615.00
	Universal Rolling Machine (Nanjing Shengda)	540.00	1,250.00
C. CUTTING, DRILLING AND POLISHING MACHINES			
	Hydraulic Shear (Amada GXII 1230)	930.00	1,100.00
	Shearing Machine	390.00	560.00
	Cutting machine (Thermal Dynamics 120S)	820.00	990.00
	Polishing Machine (Metabo)	170.00	340.00
	Drilling Machine (Magnetic Drill)	170.00	340.00
	Portable Drilling Machine	280.00	450.00
	Air Compressor (Ingersoll Rand)	280.00	450.00

3. Use of Facility/Equipment (Time Sharing Jobs)

Office/Division:	Office of the Deputy Executive Director for Research and Development - Technical Solutions Services Section (TSSS)			
Classification:	Complex			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
<ol style="list-style-type: none"> Qualifications of Machinist Machine Requirements (type of machine and duration of use) Raw materials, tools and accessories (as needed) Certificate of Competency 			<ol style="list-style-type: none"> Customer requesting for rental of facilities MIRDC-TSSS MOCG 	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Proceed to TSSS Office and request for the use of facility/ies – inquire for the availability of required facility/ies.	1.1 Prepare and issue Technical Service Request (TSR) form.	None	15 minutes	<i>Science Research Specialist II</i> or <i>Production Cost Estimator III</i>
	1.2 Review and sign the TSR	None	5 minutes	or <i>Metals Technologist III,</i> TSSS



<p>2. Review and sign TSR.</p>	<p>2.1 Issue "Request for Issuance of Official Receipt for Time Sharing Jobs" (FM-TSSS-03-006)</p>	<p>None</p>	<p>10 minutes</p>	<p><i>Science Research Specialist II</i> or <i>Production Cost Estimator III</i> or <i>Metals Technologist III,</i> TSSS</p>
<p>3. Pay to the Cashier a deposit for Machine Bond and show Official Receipt/Confirmation Receipt to TSSS staff.</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 5</p>	<p>3.1 Receive and review presented documents and payment, and issue Official Receipt.</p> <p>3.2 Review and record the O.R. number in the Technical Service Request Form</p> <p>3.2 Issue Property Entry Exit Slip (PEES).</p>	<p>P2,500 deposit for every machine to be used</p>	<p>15 minutes</p>	<p>Administrative Officer IV, Financial Management Section and <i>Science Research Specialist II</i> or <i>Production Cost Estimator III</i> or <i>Metals Technologist III,</i> TSSS</p>
<p>4. Fill-out the Entry Portion of the Property Entry Exit Slip (PEES) for all materials/supplies provided</p>	<p>4.1 Receive and review the filled out and signed PEES (Entry).</p> <p>4.2 Receive the materials, put proper labels and store them in a designated area.</p> <p>4.2 Forward the TSR and materials to the shop.</p> <p>4.3 Issue Authorization Slip</p>	<p>None</p> <p>None</p> <p>None</p>	<p>3 minutes</p> <p>10 minutes</p> <p>20 minutes</p> <p>2 minutes</p>	<p>Metals Technologist III or Science Research Specialist II or Production Cost Estimator III or Metals Technologist III or Sr. Science Research Specialist, TSSS or Supervising Science Research Specialist,</p>



	for Machine Utilization			TSSS
5. Proceed to the designated shop, check and use/operate the MIRDC machine.	None	None	20 minutes <i>(Total machine utilization time varies depending on the agreed time between MIRDC and customer)</i>	Senior Science Research Specialist or Supervising Science Research Specialist, TSSS
6. Fill out the Authorization Slip for Machine Utilization at the end of use of the machine during the day.				
7. Submit the Authorization Slip for Machine Utilization to the head of the shop.				
7. Receive, validate and approve the Authorization Slip for Machine Utilization				
8. Secure PEES at TSSS upon completion of the TSR and fill-out the Exit Portion of the Property Entry Exit Slip (PEES) for all materials/supplies to be retrieved.	8.1 Receive and review PEES (Exit). 8.2 Compute the actual cost and prepare the Delivery Receipt (DR). Actual Cost = Number of Hours Incurred x Time Sharing Rate of Machine	(Refer to Prescribed Machine Rates for MIRDC Facilities-2019 as approved by the OSEC)	2 minutes	Science Research Specialist II or Production Cost Estimator III or Metals Technologist III TSSS
9. Secure Delivery Receipt (DR).	9. Approve and sign the DR		5 minutes	
		None	3 minutes	



<p>10. Proceed to the Cashier's Office "Order of Payment" Window and present the DR.</p> <p>For online payment go to: https://www.lbp-eservices.com/gps/portal/index.jsp and proceed to Step 12</p>	<p>10.1 Receive and review the document presented.</p> <p>10.2 Create Order of Payment (O.P.) manually.</p> <p>10.3 Reflect invoice details or application of deposit if there is any;</p> <p>10.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (O.R.).</p>	<p>None</p>	<p>10 minutes</p>	<p>Administrative Officer IV, Financial Management Section or Administrative Officer V, Financial Management Section</p>
<p>11. Pay the required fee and receive OR, copy of DR and other billing documents</p>	<p>11.1 Receive documents and process OR based on the OP. Indicate details e.g., TIN, address, business style, if required by customer.</p> <p>If payment is in the form of a check, review the check as to amount, date and signatory.</p> <p>11.2 Receive payment. Stamp "PAID" all documents.</p> <p>11.3 Release OR and all billing documents except accounting copy.</p>	<p>As stated in the Order of Payment</p>	<p>5 minutes</p>	<p>Administrative Officer V, Administrative and General Services Section or Administrative Officer II, Administrative and General Services Section</p>



12. Proceed to TSSS and present the Official Receipt/Confirmation Receipt and stamped DR	12.1 Record the Official Receipt/Confirmation Receipt number, stamp the DR “released”, and update the ONEShop upon the release of the items	None	5 minutes	Science Research Specialist II or Production Cost Estimator III or Metals Technologist III, TSSS
	12.2 Release the finished product/sample and give the PEES (exit) to customer	None	5 minutes	
13. Fill up the Customer/Client Satisfaction Survey Form	13. Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	Science Research Specialist II or Production Cost Estimator III or Metals Technologist III or Metals Technologist III, TSSS
14. Present to the gate guard the Property Entry/Exit Slip and DR	14. Check the Property Entry/ Exit Slip and the items to be taken out	None	2 minutes	<i>Security Guard on duty</i> MIRDC
		TOTAL	2 hours and 22 minutes	

Note:

1. Total time of machine utilization will vary depending on the customer’s product and on the operator’s efficiency.
2. The issuance of Certificate of Competency for operators varies depending on the present skills of the applicant.



Planning and Management Division

Internal Services



I. Information System Development or Enhancement

Clients may request for development of new programs / systems. Clients may also request for enhancement or modification of existing Information Systems being maintained by PMD-MIS.

The request can be done by filling-up the MIS 001 Form – IT Job Order form which can be downloaded on Center’s Intranet site <http://10.10.120.5/mirdcintranet>. Requests can be made by MIRDC employees, Contract of Service (CoS) or Job Order (JO) personnel endorsed by the Division Chief. For electronic record purposes, the MIS personnel will input the request thru the IT Help Desk System.

Office/Division:	Planning and Management Division			
Classification:	Highly Technical			
Type of Transaction:	G2G - Government to Government			
Who may avail:	MIRDC regular employees, Contract of Service (COS) and Job Order (JO) personnel			
Stage I – Analysis and design of system for development or modification				
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
1. Approved MIS 001 Form – IT Job Order 1. IT Job Ticket			Intranet site IT Help Desk System	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Client fill-up IT job order form, include type of system development or enhancement and submit to PMD-MIS after approval of the Division Chief.	1.1 Availability of form and accessibility thru Intranet site.	None	10 minutes	<i>Information Systems Analyst III</i> or <i>Information Systems Analyst I,</i> Planning and Management Division



<p>2. Client discusses scope, objective, duration, system requirements, and cost (if needed) with PMD-MIS staff.</p> <p>(Analysis Phase)</p>	<p>2.1 Set-up/ schedule meeting with client.</p> <p>2.2 Prepare workplan for development or enhancement.</p> <p>2.3 Identify business process requirements and functional design.</p> <p>2.4 Prepare System requirement.</p> <p>2.5 Input request information in IT Help Desk System</p>	<p>None</p>	<p>8 days</p>	<p><i>Information Systems Analyst III</i> or <i>Computer Programmer III</i> or <i>Information Systems Researcher II</i> or <i>Information Systems Analyst I,</i> Planning and Management Division</p>
<p>3. Client reviews and approves design solutions.</p> <p>(Design Phase)</p>	<p>3.1 Present workplan and proposed concept design to client.</p> <p>3.2 Revise as necessary until approval is secured.</p>	<p>none</p>	<p>10 days</p>	<p><i>Computer Programmer III</i> or <i>Information Systems Researcher II</i> or <i>Information Systems Analyst I</i> Planning and Management Division</p>
	<p>3.3 Workplan is then approved and noted.</p>			<p><i>Planning Officer III</i> or <i>Planning Officer IV,</i></p>



				Planning and Management Division
4. Client conforms to completed request by signing the MIS 001 Form – IT Job Order.	4.1 Availability and retrieval of the form.	None	10 minutes.	<i>Information Systems Analyst III,</i> Planning and Management Division
		TOTAL (Stage I)	18 days and 20 minutes	
<i>End of Analysis and Design Phase</i>				

Stage II – Systems Programming				
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. After approval of systems design, client shall await for the status update of the system development or enhancement from the responsible PMD-MIS personnel. (Development Phase)	1.1 Start of system programming / source code programming.	None	System programming will be based on approved workplan / schedule	<i>Information Systems Analyst III</i> or <i>Computer Programmer III</i> or <i>Information Systems Researcher II</i> or <i>Information Systems Analyst I</i> Planning and Management Division
2. Client shall be required to test the system and shall fill up the System Evaluation Form - MIS 007.	2.1 Prepare for user orientation. 2.2 Prepare initial guidelines and Powerpoint presentation	None	7 days	<i>Information Systems Analyst III</i> or <i>Computer Programmer III</i> or <i>Information Systems Researcher II</i> or
3. (Testing Phase)				



	<p>on how to use the system.</p> <p>2.3 Prepare memo / letter / email notification as necessary.</p> <p>2.4 Assist client on system testing.</p>			<p><i>Information Systems Analyst I, Planning and Management Division</i></p>
<p>4. After testing and there are no error / program bugs, client shall approve user acceptance.</p>	<p>3.1 Collect client's system evaluation /test report.</p> <p>3.2 Prepare / provide user acceptance.</p>	<p>None</p>	<p>1 day</p>	<p><i>Computer Programmer III or Information Systems Researcher II or Information Systems Analyst I, Planning and Management Division</i></p>
<p>5. If error / program bugs found, client shall coordinate and re-submit new testing report to concerned MIS staff, until the system conformed to the Client requirements.</p>	<p>4.1 Collect system evaluation /test report.</p> <p>4.2 Apply revisions to the system as necessary.</p> <p>4.3 Prepare / provide user acceptance.</p> <p>4.4 Marked the system development</p>	<p>None</p>	<p>3 days</p>	<p><i>Computer Programmer III or Information Systems Researcher II or Information Systems Analyst I or Planning Officer III or Planning Officer IV, Planning and Management Division</i></p>



	or enhancement request as completed or close in IT Help Desk System			
6. Client shall fill out the Customer / Client Satisfaction Survey Form thru the Customer Survey Management System (CSMS).	5.1. Monitor Customer / Client Satisfaction Survey Form. 5.2. Maintain the availability and accessibility of the IT Help Desk system and Customer Survey Management	None	5 minutes	Concerned MIS staff
		TOTAL (Stage II)	11 days and 5 minutes (exclusive of programming)	
<i>End of Systems Programming and Overall Transaction for Systems Development or Modification</i>				

II. Technical Support

Clients may request PMD-MIS for technical support such as but not limited to the following: check-up of Information and Communications Technology (ICT) equipment (desktop, laptop, printer, scanner, wireless device, biometrics, etc.); software installation, uploading of website files and social media modification, repair of ICT equipment, virus detection, network access, account reset, and simple system error.

The request can be done by filling-up the online request form which can be accessed at <http://10.10.120.5/mirdcintranet>, -> Information System Menu -> IT Help Desk or via direct link: <https://it-helpdesk-mirdc.ap.ngrok.io/>. Requests can be made by MIRDC employees, Contract of Service (CoS) and Job Order (JO) personnel.



Office/Division:	Planning and Management Division			
Classification:	Simple			
Type of Transaction:	G2G - Government to Government			
Who may avail:	MIRDC regular employees, Contract of Service (COS) and Job Order (JO) personnel			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
1. IT Job Ticket (online request)			IT Help Desk System	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Client login to IT Help Desk System, submit request online.	1.1 Maintain the availability and accessibility of the IT Help Desk system.	None	5 minutes	<i>Computer Programmer III</i> or <i>Information Systems Analyst I</i> Planning and Management Division
2. Client awaits for the evaluation / assessment of PMD-MIS. Client will get email notification via IT Help Desk auto-generated email.	2.1 Check / review request if within MIS scope / capability, if within scope, assign to appropriate personnel; if not within scope, provide feedback to client.	None	10 minutes	<i>Information Systems Analyst III</i> or <i>Computer Programmer III</i> Planning and Management Division
	2.2 Assigned personnel to further check / evaluate request and move the job	None	10 minutes	<i>Information Systems Analyst III</i> or <i>Administrative Assistant III</i> or <i>Data Controller II</i> or



	ticket to appropriate status ex. ongoing, cancelled or for evaluation.			<i>Information Systems Analyst I</i> or <i>Information Systems Researcher II</i> or <i>Computer Programmer III,</i> Planning and Management Division
3. Client provides PMD-MIS technical support staff with access to the ICT equipment, or to any device / software for checking. Client can also monitor the status of the request via the IT Help Desk.	3.1 Assigned personnel shall apply appropriate action and update status of job ticket. Client will receive an email notification re: status of job request. a) If equipment is repairable by PMD-MIS or by external repair services – item will be repaired. b) If equipment is not anymore repairable – no further action is to be taken. 3.2 Assigned personnel will notify client of	None	2 days and 4 hours	<i>Information Systems Analyst III</i> or <i>Administrative Assistant III</i> or <i>Data Controller II</i> or <i>Information Systems Analyst I</i> or <i>Information Systems Researcher II</i> or <i>Computer Programmer III,</i> Planning and Management Division



	the status of the equipment (eg. repair has been completed; or if external repair services is required; or equipment is unrepairable and for disposition.			
4. Client receives auto-generated email notification that request has been completed. Client shall fill out the Customer/Client Satisfaction Survey Form thru the Customer Survey Management System (CSMS).	<p>4.1. Collect and file the filled-out Customer/Client Satisfaction Survey Form.</p> <p>4.2. Maintain the availability and accessibility of the IT Help Desk system and Customer Survey Management System (CSMS).</p>	None	5 minutes	Concerned MIS staff
		TOTAL	2 days, 4 hours and 30 minutes	
<i>End of Transaction</i>				



PROTOTYPING DIVISION

External Services



I. Contract Research/ Joint Research Services

Contract Research and Joint Research services of MIRDC apply research findings to gain new knowledge and create new or improved technologies that are marketable and economically feasible for the metals engineering and allied industries. These services includes design and simulation, products development, automation of process and equipment, and equipment prototyping.

Office/Division:	Prototyping Division			
Classification:	Highly Technical			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE		
1. Submission of Proposal				
1.1 Letter of Intent		Client		
1.2 Concept / Drawing / Design / Schematic diagram		Client		
1.3 Sample Product/ Material		Client		
2. Claiming of R&D Output				
2.1. One (1) Original or Photocopy of issued Project Order (JO)		PD		
2.2. One (1) Original or Photocopy of issued Official Receipt/Confirmation Receipt		Cashier Office, MIRDC-Finance and Administrative Division (FAD)		
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Customer inquiry (Walk-in or Electronic mail) For walk-in customers, Proceed to PD-DHO, Platinum Building.	1.1 Attend to customer inquiry 1.2 Review whether the inquiry is a contract/joint research for PD and assign to researcher, otherwise, refer inquiry to concerned division	None	1 hour	<i>Chief Science Research Specialist and / or Supervising Science Research Specialist and / or Career Scientist II / Supervising Science Research Specialist and</i>



	1.3 Request the customer to submit Letter of Intent			<i>the assigned Prototyping Division Researcher</i>
2. Submit Letter of Intent (LOI)	2.1 Receive Letter of Intent 2.2 Assign and discuss with PD researcher	None	10 minutes	<i>Chief Science Research Specialist and / or Supervising Science Research Specialist and / or Career Scientist II / Supervising Science Research Specialist and the assigned Prototyping Division Researcher</i>
3. With assistance from MIRDC, prepare and submit proposal using prescribed form. Revise, if needed.	3.1 Identify and discuss with the client the requirements, needs and responsibilities of the concerned parties for the contract/ joint research. 3.2 Assist the client in the preparation of the proposal, including workplan and line-item-budget (LIB). 3.3 Submit and present	None	12 days (exclusive of time securing appointment schedule from R&D committee)	<i>Chief Science Research Specialist and / or Supervising Science Research Specialist and / or Career Scientist II / Supervising Science Research Specialist and the assigned Prototyping Division Researcher</i>



	<p>proposal to R&D Committee for review and approval.</p> <p>3.4 Inform customer of the comments. Jointly, revise the proposal if needed and resubmit to R&D Committee.</p>			
4. Review Memorandum of Agreement (MOA)	<p>4.1 Once the proposal is approved, prepare and send copy of the Memorandum of Agreement (MOA) to Customer for review and comments.</p> <p>4.2 Review feedback and amend MOA as needed.</p> <p>4.3 Prepare five (5) copies of revised MOA and send to client for signing.</p>	None	4 days	<p><i>Chief Science Research Specialist and / or Supervising Science Research Specialist and / or Career Scientist II / Supervising Science Research Specialist and the assigned Prototyping Division Researcher</i></p>



<p>5. Sign the MOA and submit signed copies to assigned PD researcher.</p> <p>Receive agency signed copies of MOA.</p>	<p>5.1 Receive the MOA and route for MIRDC officials' signatures.</p> <p>5.2 Return agency signed copy of the Contract/MOA to client for notarization.</p>	<p>None</p>	<p>3 days</p>	<p><i>Chief Science Research Specialist and / or Supervising Science Research Specialist and / or Career Scientist II / Supervising Science Research Specialist and the assigned Prototyping Division Researcher</i></p>
<p>6. Notarize MOA.</p> <p>Submit copies to: Notary Public – two (2) copies Client – one (1) copy End-user/ Project – one (1) copy MIRDC Legal Officer– one (1) copy</p>	<p>6.1 Receive notarized MOA.</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Chief Science Research Specialist and / or Supervising Science Research Specialist and / or Career Scientist II / Supervising Science Research Specialist and the assigned Prototyping Division Researcher</i></p>
<p>7. Accomplish and sign two (2) copies of Project Order (PO). Provide required details.</p> <p>Receive one (1) copy of PO.</p>	<p>7.1 Fill-out two (2) copies of Project Order (PO) Form.</p> <p>7.2 Review and Sign PO</p>	<p>None</p>	<p>30 minutes</p>	<p><i>Chief Science Research Specialist and / or Supervising Science Research Specialist</i></p>



	<p>by Receiving staff.</p> <p>7.3 Issue a copy of PO to client.</p>			<p>and / or <i>Career Scientist II / Supervising Science Research Specialist and the assigned Prototyping Division Researcher</i></p>
<p>8. Proceed to Cashier's Office "Order of Payment (O.P.)" Window and present the PO for payment.</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 11</p>	<p>8.1 Receive and Review the PO.</p> <p>8.2 Create O.P. manually.</p> <p>8.3 Reflect invoice details or application of deposit if there is any.</p> <p>8.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (OR).</p>	None	15 minutes	<p><i>Administrative Officer IV Financial Management Section or Administrative Officer V Financial Management Section</i></p>
<p>9. Pay the required fee (if paying in cash) and Receive OR, copy of PO stamped "PAID"</p>	<p>9.1 Receive documents and process Official Receipt based on the O.P.</p> <p>9.2 Receive payment (cash) Stamp "PAID" all documents. If payment is in the form of check, review</p>	<p>Contract Cost highly depend on the complexity of the project, duration, and deliverables of the project.</p>	5 minutes	<p><i>Administrative Officer V Administrative and General Services Section or Administrative Officer II Administrative and General Services Section</i></p>



	the check as to amount, date and signatory. 9.3 Release to Client O.R. and all billing documents except accounting copy.			
10. None	10.1 Implement Research and Development project based on approved workplan/ duration. 10.2 Inform customer on the completion of the project.	None	Depending on the approved workplan.	<i>Chief Science Research Specialist and / or Supervising Science Research Specialist and / or Career Scientist II / Supervising Science Research Specialist and the assigned Prototyping Division Researcher</i>
11. Proceed to PD, present copy of OR and PO. Sign applicable documents. Accept/receive R&D Project output/s and documents.	11.1 Turn-over /release the Research and Development Project Output/s. 11.2 Prepare and request the customer to sign the Property Entry/Exit Slip, Acknowledgement Receipt of Equipment,	None	1 hour	<i>Chief Science Research Specialist and / or Supervising Science Research Specialist and / or Career Scientist II / Supervising Science Research Specialist and</i>



	Certificate of Project Completion/ Certificate of Acceptance, and/or Failure Analysis/ Investigation Report, as applicable.			the assigned Prototyping Division Researcher
12. Fill out Customer Satisfaction Survey and submit to PD staff.	12.1 Issue Customer Satisfaction Survey.	None	5 minutes	<i>Chief Science Research Specialist and / or Supervising Science Research Specialist and / or Career Scientist II / Supervising Science Research Specialist and the assigned Prototyping Division Researcher</i>
	TOTAL	19 days, 3 hours and 10 minutes (exclusive of actual implementation)		

SITUATION	ACTION	LOCATION	REMARKS
The inquiry in Agency Action 1.1 requires more than one engineering / science field.	Meeting with experts/ researchers may be required.	MIRDC	Will take longer time depending on the assessments / arguments of experts/ researchers.
If the R&D Committee has concerns / comments that need to be addressed in Agency Action 3.3	<p>Coordinate with the client and inform them on the concerns / comments.</p> <p>Provide necessary actions to address the concerns / comments.</p>	MIRDC	Will take longer time depending on the next schedule of review of the R&D Committee
Projects above Php 2M will be subject to approval of the MIRDC Governing Council (GC)	Project proposal will be included in the Agenda for the Meeting or subject to a referendum	Venue of GC Meeting	Process will take additional time.



TECHNOLOGY DIFFUSION DIVISION

External Services



I. Industrial Training Services*

A. Industrial Training Services - Packaged Training Programs (Face-to-Face)

Package training program is a revenue generating training activity designed exclusively to an individual and/or group/organization/association to be held in-plant or at MIRDC or other venue mutually agreed upon by both parties.

Office/Division:	Technology Diffusion Division - Industrial Training Section (ITS)			
Classification:	Highly Technical			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
Accomplished Training Inquiry Logsheet (TIL)			MIRDC/TDD- ITS Office	
Letter of Request (LER)			Client	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Supply information required on the Training Inquiry Logsheet (TIL) or submit Letter of Request (LER)	1.1 Receive inquiry on TIL or LER.	None	5 minutes	<i>Training Specialist I, Program Design and Promotion (PDP) Unit</i> or
	1.2 Conduct Training Requirement Analysis (TRA) to assess the client's training needs and evaluate if within MIRDC's capability through email or phone call.	None	2 days	<i>Training Specialist II, Program Design and Promotion (PDP) Unit</i> or
	1.3 Prepare and send approved Quotation to client.	None	2 days & 4 hours	<i>Training Specialist III, Program Design and Promotion (PDP) Unit</i>



2. Submit acceptance letter (through fax, email or submit personally)	2.1 Receive acceptance letter	None	2 minutes	<i>Training Specialist I, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist II, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist III, Program Design and Promotion (PDP) Unit</i>
	2.2 Inform client on the date/s of training and send link for participants to register.	None	3 minutes	<i>Training Specialist II, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist II, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Program Implementation and Evaluation (PIE) Unit</i>
	2.3 Prepare the materials and the logistics necessary to hold the training	None	4 days and 40 minutes	<i>Training Specialist III, Program Design and Promotion (PDP) Unit/ Program Implementation and Evaluation (PIE) Unit</i>
3. Present billing documents e.g. Invoice, S/A, to Cashier's Office "Order of Payment" window.	3.1 Receive and review documents presented. If needed, ask the customer to receive invoice/SOA. 3.2 Create Order of Payment (O.P.) manually. 3.3 Reflect on the Invoice/ SOA details or	None	5 minutes	<i>Administrative Officer IV, Financial Management Section</i> or <i>Administrative Officer V, Financial Management Section</i>



	<p>application of deposit if there is any;</p> <p>3.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (O.R.)</p>			
4. Pay the required fee and Receive Official Receipt and other billing documents	<p>4.1 Receive Order of Payment and other billing documents. Accept payment and prepare Official Receipt based on Order of Payment. Indicate details e.g. TIN, address, business style, if required by customer.</p> <p>4.2 Stamp "PAID" to all billing documents.</p> <p>4.3 Release Official Receipt and other billing documents</p> <p>4.4 Record the OR No. to ITS Training Program Tracker</p>	<p>As indicated in the Order of Payment</p> <p>None</p>	<p>5 minutes</p> <p>2 minutes</p>	<p><i>Administrative Officer V</i> or <i>Administrative Officer II,</i> Administrative and General Services Section</p> <p><i>Training Specialist I,</i> Program Implementation and Evaluation (PIE) Unit or <i>Training Specialist II,</i> Implementation and Evaluation (PIE) Unit or <i>Training Specialist III,</i> Implementation and Evaluation (PIE) Unit</p>



5. Attend the training	5.1 Conduct Training	None	Depends on the program	Resource Speaker
Trainee should submit the following: pre & post-examination, training evaluation	5.2 Monitor/check attendance of participant/s.	None	5 minutes	<i>Training Specialist I</i> , Program Implementation and Evaluation (PIE) Unit or <i>Training Specialist II</i> , Program Implementation and Evaluation (PIE) Unit or <i>Training Specialist III</i> , Program Implementation and Evaluation (PIE) Unit
	5.3 Prepare necessary documents for the issuance of e-certificate/s.	None	5 minutes	
	5.4 Prepare training e-certificate/s	None	15 minutes	
6. Fill-out Customer/ Client Satisfaction Survey Form and submit to ITS staff.	6.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	5 minutes	
7. Receive training certificate/s (E-Certificates will be sent to registered email account)	7.1 Send e-certificate.	None	5 minutes	
		TOTAL	8 days, 5 hours and 37 minutes	

SITUATION	ACTION	LOCATION OF ACTION	REMARKS
If the training requested by the client is not within the MIRDC capability	Inform the client and/or refer to the appropriate institution.	ITS Office	



B. Industrial Training Services - Packaged Training Programs (Online)

Package training program is a revenue generating training activity designed exclusively to an individual and/or group/organization/association conducted in a virtual platform.

Office/Division:	Technology Diffusion Division - Industrial Training Section (ITS)			
Classification:	Highly Technical			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
Accomplished Training Inquiry Logsheet (TIL)			MIRDC/TDD- ITS Office	
Letter of Request (LER)			Client	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Supply information required on the Training Inquiry Logsheet (TIL) or submit Letter of Request (LER)	1.1 Receive inquiry on TIL or LER.	None	5 minutes	<i>Training Specialist I, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist II, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist III, Program Design and Promotion (PDP) Unit</i>
	1.2 Conduct Training Requirement Analysis (TRA) to assess the client's training needs and evaluate if within MIRDC's capability. Through email or phone call.	None	2 days	
	1.3 Prepare and send approved Quotation to client.	None	2 days & 4 hours	
2. Submit acceptance letter (through fax, email or	2.1 Receive acceptance letter.	None	2 minutes	<i>Training Specialist I, Program Design and Promotion (PDP) Unit</i>



submit personally)	<p>2.2 Inform client on the date/s of training, prepare and send link for participants to register and the zoom link.</p> <p>2.3 Prepare the materials and the logistics necessary to hold the training</p>	None	3 minutes	<p>or <i>Training Specialist II</i>, Program Design and Promotion (PDP) Unit or <i>Training Specialist III</i>, Program Design and Promotion (PDP) Unit</p> <p><i>Training Specialist I</i>, Program Implementation and Evaluation (PIE) Unit or <i>Training Specialist II</i>, Program Implementation and Evaluation (PIE) Unit or <i>Training Specialist III</i>, Program Implementation and Evaluation (PIE) Unit</p>
3. Present billing documents, e.g. Invoice, S/A, to Cashier's Office "Order of Payment" window.	<p>3.1 Receive and review documents presented. If needed, ask the customer to receive invoice/SOA.</p> <p>3.2 Create Order of Payment (O.P.) manually.</p> <p>3.3 Reflect on the Invoice/ SOA details or application of deposit if there is any;</p>	None	5 minutes	<p><i>Administrative Officer IV</i>, or <i>Administrative Officer V</i>, Financial Management Section</p>



	3.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (O.R.)			
4. Pay the required fee and Receive Official Receipt and other billing documents	4.1 Receive Order of Payment, and other billing documents. Accept payment and prepare Official Receipt based on Order of Payment. Indicate details e.g.TIN, address, business style, if required by customer.	As indicated in the Order of Payment	5 minutes	<i>Administrative Officer V,</i> or <i>Administrative Officer II,</i> Administrative and General Services Section
	4.2 Stamp "PAID" to all billing documents. 4.3 Release Official Receipt and other billing documents 4.4 Record the OR No. to ITS Training Program Tracker	None	2 minutes	<i>Training Specialist I,</i> Program Implementation and Evaluation (PIE) Unit or <i>Training Specialist II,</i> Program Implementation and Evaluation (PIE) Unit or <i>Training Specialist III,</i> Program Implementation and Evaluation (PIE) Unit
5. Attend the training	5.1 Conduct Online Training	None	Depends on the program	Resource Speaker



Trainee should submit the following: pre & post-examination, training evaluation.	5.2 Monitor/check attendance of participant/s.	None	30 minutes	<i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Program Implementation and Evaluation (PIE) Unit</i>
	5.3 Prepare necessary documents for the issuance of e-certificate/s.	None	5 minutes	<i>Training Specialist III, Program Implementation and Evaluation (PIE) Unit</i>
	5.4 Prepare training e-certificate/s	None	30 minutes	<i>Planning Officer II, Planning and Management Division (PMD)</i>
6. Fill-in Customer/ Client Satisfaction Survey Form and submit online.	6.1 PMD Staff receives the online submission of Customer/Client Satisfaction Survey response	None	5 minutes	
7. Receive training certificate/s (E-Certificates will be sent to registered email account)	7.1 Send e-certificate	None	5 minutes	<i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist III, Program Implementation and Evaluation (PIE) Unit</i>
		TOTAL	4 days, 7 hours and 37 minutes	



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
If the training requested by the client is not within the MIRDC capability	Inform the client and/or refer to the appropriate institution.	ITS Office	



C. Industrial Training Services - Regional Training Programs (Face-to-face)

Regional training program is a non-revenue generating training activity conducted to different government institutions, associations, academe and/or group through a resource-sharing scheme.

Office/Division:	Technology Diffusion Division-Industrial Training Section (ITS)			
Classification:	Highly Technical			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
Accomplished Training Inquiry Form (TIF)			MIRDC/TDD - ITS Office	
Original copy of Letter of Request (LER)			Client	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Supply information required on the Training Inquiry Logsheet (TIL) or submit Letter of Request (LER)	1.1 Receive inquiry TIL or LER.	None	5 minutes	<i>Training Specialist I, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist II, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist III, Program Design and Promotion (PDP) Unit</i>
	1.2 Conduct Training Requirement Analysis (TRA) to assess the client's training needs and evaluate if within MIRDC's capability. Through email or phone call.	None	2 days	
	1.3 Prepare and send approved training program proposal to client.	None	2 days & 4 hours	
2. Submit signed Terms and Conditions	2.1 Received Signed Terms and Conditions.	None	2 minutes	<i>Training Specialist I, Program Design and Promotion (PDP) Unit</i> or
	2.2 Inform client	None	3 minutes	



<p>(through fax, email or submit personally)</p>	<p>on the date/s of training and send a link for participants to register.</p>			<p><i>Training Specialist II, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist III, Program Design and Promotion (PDP) Unit</i></p> <p><i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist III, Program Implementation and Evaluation (PIE) Unit</i></p>
<p>3. Attend training.</p> <p>Trainee must submit the pre and post-examination training evaluation and Customer/ Client Satisfaction Survey Form after the training.</p>	<p>2.3 Prepare the materials and the logistics necessary to hold the training</p> <p>3.1 Conduct the Training</p> <p>3.2 Monitor/check attendance of participant/s.</p> <p>3.3 Prepare necessary documents for the issuance of e-certificate/s.</p> <p>3.4 Prepare training e-certificate/s</p>	<p>None</p> <p>None</p> <p>None</p> <p>None</p>	<p>4 days & 40 minutes</p> <p>Depends on the program</p> <p>5 minutes</p> <p>5 minutes</p> <p>15 minutes</p>	<p><i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist III, Program Implementation and Evaluation (PIE) Unit</i></p> <p>Resource Person</p> <p><i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist III, Program Implementation and Evaluation (PIE) Unit</i></p>



4. Fill-out Customer/ Client Satisfaction Survey Form and submit to ITS staff.	4.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	3 minutes	
5. Receive training certificate/s (E-Certificates will be sent to registered email account)	5.1 Send e-certificate/s.	None	5 minutes	- Same as step 3
		TOTAL	8 day, 5 hours and 23 minutes	

SITUATION	ACTION	LOCATION OF ACTION	REMARKS
If the training requested by the client is not within the MIRDC capability	Inform the client and/or refer to the appropriate institution.	ITS Office	

D. Industrial Training Services - Regional Training Programs (Online)

Regional training program is a non-revenue generating training activity conducted to different government institutions, associations, academe and/or group conducted on a virtual platform.

Office/Division:	Technology Diffusion Division-Industrial Training Section (ITS)		
Classification:	Highly Technical		
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government		
Who may avail:	All		
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE	
Accomplished Training Inquiry Form (TIF)		MIRDC/TDD - ITS Office	
Original copy of Letter of Request (LER)		Client	



CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Supply information required on the Training Inquiry Logsheet (TIL) or submit Letter of Request (LER)	1.1 Receive inquiry TIL or LER.	None	5 minutes	<i>Training Specialist I, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist II, Program Design and Promotion (PDP) Unit</i>
	1.2 Conduct Training Requirement Analysis (TRA) to assess the client's training needs and evaluate if within MIRDC's capability through email or phone call.	None	2 days	<i>Training Specialist III, Program Design and Promotion (PDP) Unit</i>
	1.3 Prepare and send approved training program proposal to client.	None	2 days & 4 hours	
2. Submit signed Terms and Conditions (through fax, email or submit personally)	2.1 Received Signed Terms and Conditions.	None	2 minutes	<i>Training Specialist I, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist II, Program Design and Promotion (PDP) Unit</i>
	2.2 Inform client on the date/s of training, prepare and send a link for participants to register and the zoom link.	None	3 minutes	<i>Training Specialist III, Program Design and Promotion (PDP) Unit</i>
	2.3 Prepare the materials and the logistics necessary to hold the training	None	2 days	<i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Program Implementation and Evaluation (PIE) Unit</i> or



				<i>Training Specialist III, Program Implementation and Evaluation (PIE) Unit</i>
3. Attend training. Trainee should submit the following: pre & post-examination, training evaluation.	3.1 Conduct the Training 3.2 Monitor/check attendance of participant/s. 3.3 Prepare necessary documents for the issuance of e-certificate/s. 3.4 Prepare training e-certificate/s	None None None None	Depends on the program 30 minutes 5 minutes 30 minutes	Resource Person <i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist III, Program Implementation and Evaluation (PIE) Unit</i>
4. Fills out Customer/ Client Satisfaction Survey Form	4.1 PMD Staff receives the online submission of Customer/Client	None	2 minutes	<i>Planning Officer II, Planning and Management Division (PMD) Staff</i>



and submit online.	Satisfaction Survey response			
5. Receive training certificate/s (E-Certificates will be sent to registered email account).	5.1 Send e-certificate/s.	None	5 minutes	<i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist III, Implementation and Evaluation (PIE) Unit</i>
		TOTAL	6 days, 5 hours and 22 minutes	

SITUATION	ACTION	LOCATION OF ACTION	REMARKS
If the training requested by the client is not within the MIRDC capability	Inform the client and/or refer to the appropriate institution.	ITS Office	

E. Industrial Training Services - Regular Training Programs (Face-to-face)

Regular training program is a revenue generating activity being offered regularly to the public at specific scheduled dates and is conducted at MIRDC.

Office/Division:	Technology Diffusion Division-Industrial Training Section (ITS)			
Classification:	Highly Technical			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE		
1. Filled-up Reservation Form		MIRDC website, ITS Official email, Fax, Training Office		
2. Curriculum Design provided to the client		ITS Official email, Fax, Training Office		
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE



<p>1. Submit filled out Seminar Reservation Form (RF) to Industrial Training Section (through fax, email, or submit personally)</p>	<p>1.1 Check and review the entries in the Reservation Form (RF) 1.2 Log in the Reservation Form (RF) Monitoring Sheet</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Training Specialist I, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist II, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist III, Program Design and Promotion (PDP) Unit</i></p>
<p>2. Confirm reservation</p>	<p>2.1 Inform clients on the status of their reservation (confirmed or waitlisted) through phone or email and send a link for participants to register.</p>	<p>None</p>	<p>10 minutes</p>	<p><i>Training Specialist I, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist II, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist III, Program Design and Promotion (PDP) Unit</i></p>
	<p>2.2 Prepare the materials and the logistics necessary to hold the training</p>	<p>None</p>	<p>4 days & 40 minutes</p>	<p><i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist III, Implementation and Evaluation (PIE) Unit</i></p>
<p>3. Request for Statement of Account (SOA)</p>	<p>3.1 Forward the accomplished Billing Request Form together with their Reservation Form to Cashiering Office</p>	<p>As per approved MIRDC Training Fees</p>	<p>10 minutes</p>	<p><i>Training Specialist I, Program Design and Promotion (PDP) Unit</i> or <i>Training Specialist II, Program Design and Promotion (PDP) Unit</i> or</p>



	3.2 Send approved SOA through email or fax (Original SOA will be given to the participants upon attendance to training)			<i>Training Specialist III, Program Design and Promotion (PDP) Unit</i>
4. Present copy of billing documents, e.g. Invoice, S/A, to Cashier's Office "Order of Payment" window.	4.1 Receive and review documents presented. If needed, ask the customer to receive invoice/SOA. 4.2 Create Order of Payment (O.P.) manually. 4.3 Reflect on the Invoice/SOA details or application of deposit if there is any; 4.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (O.R.)	None	5 minutes	<i>Administrative Officer IV, Financial Management Section or Administrative Officer V, Financial Management Section</i>
5. Pay the required fee and Receive Official Receipt, and billing documents For online payment go to:	5.1 Receive Order of Payment, and billing documents. Accept payment and prepare Official Receipt	As indicated in the Order of Payment	5 minutes	<i>Administrative Officer V or Administrative Officer II, Administrative and General Services Section</i>



<p>https://www.lbp-eservices.com/egps/portal/index.jsp</p> <p>Note: In case of various checks for various companies/participants, ITS staff shall gather checks altogether and its corresponding RFs and forward to Cashier's Office for processing of OP and issuance of OR on the same day.</p>	<p>based on Order of Payment. Indicate details e.g. TIN, address, business style, if required by customer.</p> <p>5.2 Stamp "PAID" to all billing documents.</p> <p>5.3 Release Official Receipt, and billing documents</p> <p>5.4 Record the Official Receipt No. to ITS Training Program Tracker</p>	<p>None</p>	<p>2 minutes</p>	<p><i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist III, Implementation and Evaluation (PIE) Unit</i></p>
<p>6. Attend training</p> <p>Trainee must submit the pre and post-examination Training evaluation.</p>	<p>6.1 Conduct Training.</p> <p>6.2 Monitor/check attendance of participant/s.</p> <p>6.3 Prepare necessary documents for the issuance of e-certificate/s.</p>	<p>None</p> <p>None</p> <p>None</p>	<p>Depends on the program</p> <p>5 minutes</p> <p>5 minutes</p>	<p>Resource Speaker</p> <p><i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Implementation and Evaluation (PIE) Unit</i> or</p>



	6.4 Prepare training e-certificate/s	None	15 minutes	<i>Training Specialist III, Program Implementation and Evaluation (PIE) Unit</i>
7. Fill-out Customer/ Client Satisfaction Survey Form and submit to ITS staff.	7.1 Collect and file the filled-out Customer/Client Satisfaction Survey Form	None	3 minutes	
8. Receive training certificate/s (E-Certificates will be sent to registered email account).	8.1 Send e-certificate/s.	None	5 minutes	
		TOTAL	4 days, 1 hour and 50 minutes	

F. Industrial Training Services - Regular Training Programs (Online)

Regular training program is a revenue generating activity being offered regularly to the public at specific scheduled dates and is conducted in a virtual platform.

Office/Division:	Technology Diffusion Division-Industrial Training Section (ITS)			
Classification:	Highly Technical			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
1. Filled-up Reservation Form			MIRDC website, ITS Official email, Fax, Training Office	
2. Curriculum Design provided to the client			ITS Official email, Fax, Training Office	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Submit filled out Seminar Reservation	1.1 Check and review the entries	None	5 minutes	<i>Training Specialist I, Program Design and</i>



Form (RF) to Industrial Training Section (through fax, email, or submit personally)	in the Reservation Form (RF) 1.2 Log in the Reservation Form (RF) Monitoring Sheet			Promotion (PDP) Unit or <i>Training Specialist II</i> , Program Design and Promotion (PDP) Unit or <i>Training Specialist III</i> , Program Design and Promotion (PDP) Unit
2. Confirm reservation	2.1 Inform clients on the status of their reservation (confirmed or waitlisted) through phone or email prepare and send a link for participants to register and the zoom link. 2.2 Prepare the materials and the logistics necessary to hold the training	None	10 minutes	<i>Training Specialist I</i> , Program Design and Promotion (PDP) Unit or <i>Training Specialist II</i> , Program Design and Promotion (PDP) Unit or <i>Training Specialist III</i> , Program Design and Promotion (PDP) Unit
3. Request for Statement of Account (SOA)	3.1 Forward the accomplished Billing Request Form together with their Reservation Form to Cashiering Office 3.2 Send approved SOA through email or fax.	As per approved MIRDC Training Fees	10 minutes	<i>Training Specialist I</i> , Program Design and Promotion (PDP) Unit or <i>Training Specialist II</i> , Program Design and Promotion (PDP) Unit or <i>Training Specialist III</i> , Program Design and Promotion (PDP) Unit



<p>4. Present copy of and billing documents if applicable, e.g. Invoice, S/A, to Cashier's Office "Order of Payment" window.</p>	<p>4.1 Receive and review documents presented. If needed, ask the customer to receive invoice/SOA.</p> <p>4.2 Create Order of Payment (O.P.) manually.</p> <p>4.3 Reflect on the Invoice/SOA details or application of deposit if there is any;</p> <p>4.4 Forward O.P. and other documents to Cashier for issuance of Official Receipt (O.R.)</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Administrative Officer IV</i> or <i>Administrative Officer V,</i> Financial Management Section</p>
<p>5. Pay the required fee and Receive Official Receipt, and billing documents</p> <p>Note: In case of various checks for various companies/participants, ITS staff shall gather checks altogether and its corresponding RFs and forward to Cashier's Office for</p>	<p>5.1 Receive Order of Payment, Registration Form and other billing documents.</p> <p>Accept payment and prepare Official Receipt based on Order of Payment. Indicate details e.g.TIN, address, business style, if required by customer.</p> <p>5.2 Stamp "PAID" all documents.</p>	<p>As indicated in the Order of Payment</p>	<p>5 minutes</p>	<p><i>Administrative Officer V</i> or <i>Administrative Officer II,</i> Administrative and General Services Section</p>



<p>processing of OP and issuance of OR on the same day.</p>	<p>5.3 Release Official Receipt and billing documents</p> <p>5.4 Record the OR No. to ITS Training Program Tracker</p>	<p>None</p>	<p>2 minutes</p>	<p><i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist III, Implementation and Evaluation (PIE) Unit</i></p>
<p>6. Attend training</p> <p>Trainee must submit the following: pre & post-examination, training evaluation.</p>	<p>6.1 Conduct Training.</p> <p>6.2 Monitor/check attendance of participant/s.</p> <p>6.3 Prepare necessary documents for the issuance of e-certificate/s.</p> <p>6.4 Prepare training e-certificate/s</p>	<p>None</p> <p>None</p> <p>None</p> <p>None</p>	<p>Depends on the program</p> <p>30 minutes</p> <p>5 minutes</p> <p>30 minutes</p>	<p>Resource Speaker</p> <p><i>Training Specialist I, Program Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist II, Implementation and Evaluation (PIE) Unit</i> or <i>Training Specialist III, Implementation and Evaluation (PIE) Unit</i></p>
<p>7. Fill-in Customer/ Client Satisfaction Survey Form and submit online.</p>	<p>7.1 PMD Staff receives the online submission of Customer/Client Satisfaction Survey response.</p>	<p>None</p>	<p>2 minutes</p>	<p><i>Planning Officer II, Planning and Management Division (PMD)</i></p>



8. Receive training certificate/s (E-Certificates will be sent to registered email account).	8.1 Send e-certificate/s.	None	5 minutes	- same as step 6 –
		TOTAL	2 days, 1 hour and 49 minutes	

SITUATION	ACTION	LOCATION OF ACTION	REMARKS
If Agency Action 2.1 needs changes: If the reserved participant is unable to attend	Ask client for the replacement of participant	ITS Office	Reflect the replaced participant on the list.
If no replacement	Cancel the reservation	ITS Office	The name of the reserved participants will be marked "Cancelled"
If cancellation of reservation is made less than 3 days before the scheduled seminar	Ask for a letter of cancellation. Call-up Waitlisted Clients on the available slot and inform if they could attend the scheduled seminar	ITS Office	Cancellation of reserved participants.

MIRDC REGULAR SEMINAR/TRAINING FEES (Face-to-face)

ANALYSIS AND TESTING	
<u>Title of Program /Duration/Course Description</u>	<u>Seminar Fee</u>
Dimensional Metrology 1 Basic Measurement (24 hours) Discusses the history and basic concept of measurement and focuses on its uncertainty. It aims to provide the necessary knowledge and skills in proper handling and maintenance of different measuring instruments	PhP 5,800.00



<p>Dimensional Metrology 2 Basic Length Calibration (Prerequisite: DM1-Basic Measurement) (24 hours)</p> <p>Explains the calibration and traceability concepts, general requirements for calibration and actual application using different instruments.</p>	<p>PhP 5,800.00</p>
<p>Dimensional Metrology 3 Limits & Fits & Inspection of Geometrical Tolerances (Prerequisite: DM1-Basic Measurement) (14 hours)</p> <p>Covers the general concept of ISO Limits and Fits, Geometric Tolerances and CMM application on Geometric Tolerance Inspection.</p>	<p>PhP 4,000.00</p>
<p>Uncertainty of Measurement Length Calibration Application (Prerequisite: DM2- Basic Length Calibration) (16 hours)</p> <p>Aims to understand and compute for the uncertainty of measurement in length calibration based on NATA Assessment of Uncertainties of Measurement (with reference to ISO-GUM)</p>	<p>PhP 4,000.00</p>
<p>Industrial Calibration (12 hours)</p> <p>Covers calibration principles and procedures on pressure, temperature, and mass.</p>	<p>PhP 4,000.00</p>
<p>Verification of Common Laboratory Instruments (12 hours)</p> <p>Discusses verification vs. calibration, immediate checking process, verification of common laboratory instruments and analysis of verification data using control charts</p>	<p>PhP 5,000.00</p>
<p>Metals Identification & Selection (16 hours)</p> <p>Discusses the different properties of metals, classification and uses of ferrous and non-ferrous metals, and pointers on metal selection.</p>	<p>PhP 4,000.00</p>
<p>Nondestructive Testing (40 hours)</p> <p>Covers liquid penetrant testing, magnetic particle inspection, radiography and ultrasonic testing methods.</p>	<p>PhP 8,400.00</p>



<p>Introduction to Advanced Ultrasonic Testing (Phased-Array Ultrasonic Testing-PAUT) (18 hours) Discusses the difference between conventional and advanced ultrasonic testing (PAUT), principle of PAUT, different basic techniques used in PAUT and perform basic calibration PAUT.</p>	<p>PhP 7,000.00</p>
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ENGINEERING, PRODUCTION AND PLANNING	
<u>Title of Program /Duration/Course Description</u>	<u>Seminar Fee</u>
<p>Establishment of Preventive Maintenance System (20 hours) Focuses on the steps in setting up preventive maintenance program and Computerized Maintenance Management System (CMMS).</p>	<p>PhP 4,500.00</p>
<p>Product Costing (16 hours) Discusses the basic cost concepts, ways of cost classification and types of product costing system. It also includes the preparation of standard cost for specific products.</p>	<p>PhP 4,000.00</p>
<p>Production Planning & Control (18 hours) Discusses the role of PPC in an industrial firm, its principles, importance and various functions.</p>	<p>PhP 4,500.00</p>
<p>Cost Estimation for Machining Jobs (18 hours) Discusses the basic preparation of Cost Estimation of a simple machine products and determine the elements of costs and standard rates.</p>	<p>PhP 4,200.00</p>
<p>AC/DC Electricity on Automation Technology (24 hours) Provides knowledge in AC/DC Electricity Principles, discusses and interprets about Electrical Schematics and design, helps create Electrical Logic Circuits - its performance and operation with Input and Output Devices.</p>	<p>PhP 4,500.00</p>



HIGH MACHINING TECHNOLOGY	
<u>Title of Program /Duration/Course Description</u>	<u>Seminar Fee</u>
<p>Application of CAD/CAM (Computer-Aided Design/Computer-Aided Manufacturing) (40 hours) Covers NC Programming using CAD/CAM softwares. Import product models from CAD softwares. Create toolpaths and simulate cutting movements of CNC machines using Cimatron Mastercam software.</p>	PhP 9,600.00
<p>CNC Milling Programming & Operation (38 hours) Provides knowledge in operation and programming of CNC milling machines, coding and encoding of programs using G-codes, M-codes</p>	PhP 10,200.00
<p>Plastic Injection Molding Machine Programming & Operation (40 hours) Aims to provide skills and knowledge in machining using the SUMITOMO Plastic Injection Molding Machine.</p>	PhP 8,900.00
<p>CNC EDM Sinking Programming & Operation (40 hours) Provides knowledge in creating CNC-Wire Cutting EDM program and discusses the different types of wires and materials use in CNC-EDM Wire Cutting machine.</p>	PhP 9,600.00
<p>CNC EDM Wire Cutting, Programming & Operation (40 hours) Provides knowledge in the EDM Sinking process and discusses the functions of Die Electric Fluid and EDM Sinker Electrode.</p>	PhP 9,600.00
<p>Fundamentals of Gear Hobbing Operation (24 hours) Provides knowledge in Fundamentals of Gear Making and discusses gear hobbing operation.</p>	PhP 11,750.00
<p>Mold Assembly Using NX (18 hours) Discusses the principles of Mold Assembly Using NX and its processes.</p>	PhP 5,200.00
<p>Mold Wizard Design Process (24 hours) Discusses the principles of Mold Wizard and its processes.</p>	PhP 5,200.00



Plastic Injection Mold Design (40 hours) Discusses the principles of Mold Design and uses of the NX software in Mold Design.	PhP 9,400.00
Plastic Injection Mold Assembly (24 hours) Discusses the fundamentals of Plastic Injection Mold Assembly and its processes.	PhP 6,700.00
NX CAD Fundamental Course (40 hours) Discusses the fundamentals of CAD. Covers 2D sketch, 3D design, design feature, associative copy/Geometry, Offset/Scale, detail feature of design.	PhP 9,000.00

MANAGEMENT AND PRODUCTIVITY IMPROVEMENT PROGRAM	
<u>Title of Program /Duration/Course Description</u>	<u>Seminar Fee</u>
Value Analysis/ Value Engineering I (38 hours) Deals with the improvement of cost consciousness throughout the organization through an application of a systematic and team approach of an effective cost reduction in both product and service.	PhP 8,000.00
Project Management (30 hours) Discusses the project management framework, steps to project management process, application of computer software in project management.	PhP 7,000.00
Value Analysis/ Value Engineering for Die & Mold Industry (21 hours) Deals with the improvement of cost consciousness throughout the organization through an application of VA systematics and discusses the practice in functional way to improve the relationship between the product, function and cost as used to study mold or die.	PhP 6,200.00



METALWORKING TECHNOLOGY	
Title of Program /Duration/Course Description	<u>Seminar Fee</u>
<p>Electroplating Processes (18 hours) Focuses on the principles and process of electroplating, decorative chromium, hard chromium, gold/silver and zinc plating.</p>	PhP 5,200.00
<p>Heat Treatment of Steels (30 hours) Covers the different heat treatment processes of steel, i.e. annealing, normalizing, spheroidizing, tempering, stress relieving, direct hardening, carburizing, carbonitriding, tufftriding and flame hardening.</p>	PhP 7,400.00
<p>Metal Fabrication (30 hours) Covers the fabrication processes applied to fabricate metal products, and the typical fabrication materials used.</p>	PhP 8,200.00
<p>Shielded Metal Arc Welding (SMAW) (24 hours) Covers welding of metals in different positions and welding joints, common problems, causes and remedies in SMAW operation, knowledge of properties of metals & use of personal protective equipment as a standard working procedure.</p>	PhP 9,000.00
<p>TIG Welding on Carbon Steel Plates-Module I (30 hours) Provides knowledge and skills in TIG process, principle, advantages, limitation, techniques, causes and prevention of discontinuities encountered.</p>	PhP 13,800.00
<p>GMAW/MIG-MAG Welding on Carbon Steel Plates – Module I (30 hours) Provides knowledge and skills in MIG/MAG process, principle, advantages, limitation, techniques, causes and prevention of discontinuities encountered.</p>	PhP 12,100.00



QUALITY MANAGEMENT SYSTEM	
<u>Title of Program /Duration/Course Description</u>	<u>Seminar Fee</u>
Customer Satisfaction Measurement (16 hours) Focuses on the fundamental concept of customer satisfaction measurement through statistical analysis and interpretation of survey data.	PhP 4,000.00
Internal Quality Audit (24 hours) Aims to realize the importance of internal quality audit as a tool in identifying improvement opportunities in the QMS; interpret requirements of ISO 9001 in the context of audit; describe the roles and responsibilities of internal auditors; plan and conduct an audit in accordance with ISO 19011:2018 Standard.	PhP 6,300.00
Awareness Seminar on ISO 9001:2015 (8 hours) Discusses the eight (8) Management Principles and the highlights of the ISO 9001:2015 standard.	PhP 2,500.00
Root Cause Analysis (16 hours) Discusses the application of various Root Cause Analysis techniques for continual improvement.	PhP 5,000.00
Awareness on Risk Management (Based on ISO 31000:2018) (8 hours) Discusses the Risk Management Principles, Risk Management Framework and Process, Risk Assessment and Risk Treatment Techniques.	PhP 2,500.00
Effective Skills for Audit Reporting (8 hours) Discusses the Risk Management Principles, Risk Management Framework and Process, Risk Assessment and Risk Treatment Techniques.	PhP 2,500.00
Developing and Implementing a Laboratory Quality Management System Based on ISO/IEC 17025 (24 hours) Covers understanding the clauses of ISO/IEC 17025, preparation of the required documentation, practical guidance to documentation, implementation and accreditation.	PhP 6,000.00
<i>(Prices may increase without prior notice)</i>	



MIRDC REGULAR SEMINAR/TRAINING FEES (Online)

ENGINEERING, PRODUCTION AND PLANNING	
<u>Title of Program /Duration/Course Description</u>	<u>Seminar Fee</u>
Module 1: Overview of Production and Operations Management (6 hours) Discusses the Production and Operations Management, Service Operations, Manufacturing Operations and identify the different approaches for managing operations.	PhP 1,000.00
Module 2: The Extent and Opportunities of Production and Operations Management: Its Functions and Scope (18 hours) Aims to understand the various functions in the Production and Operations Management and explains its scope.	PhP 2,500.00
<i>(Prices may increase without prior notice)</i>	
ANALYSIS AND TESTING	
<u>Title of Program /Duration/Course Description</u>	<u>Seminar Fee</u>
Industrial Calibration (9 hours) Covers calibration principles and procedures on pressure, temperature, and mass.	PhP 3,000.00
<i>(Prices may increase without prior notice)</i>	

METALWORKING TECHNOLOGY	
<u>Title of Program /Duration/Course Description</u>	<u>Seminar Fee</u>
Geometric Imperfections in Metallic Materials for Fusion Welding (3 hours) Discusses imperfections, differentiate imperfection from defect, identify ISO Number System Classification of Imperfections and its designation.	PhP 400.00
<i>(Prices may increase without prior notice)</i>	



II. Technology Advisory and Business Development Services

A. Technology Advisory and Business Development Services - Short-term Consultancy Services

Consultancy is requested by an individual, company or association or other government agencies designed to suit their specific requirements.

A Short-term Consultancy Service is one (1) day or less engagement which is free or with no required fee.

Office/Division:	Technology Diffusion Division – Technology Advisory and Business Development Section			
Classification:	Highly Technical			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
1. Request Letter / one (1) copy			Requesting Party	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESING TIME	PERSON RESPONSIBLE
1. Inquire or request for technical assistance/ consultancy services through letter, phone, fax, email or personally.	1. Evaluate client's inquiry/request.	None	8 minutes	<i>Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Supervising Science Research Specialist of TABDS</i>



<p>2. Provide information based on required intervention</p>	<p>2.1 Provide on-the-spot expert advice for short-term consultancy.</p> <p>2.2 Recommend to client if further on-site consultancy visit is required and/or provide correspondence (i.e. letter).</p> <p>2.3 Complete information on service provided in the Technical Assistance Request and Report Information System (TARRIS).</p>	<p>None</p>	<p>1 hour and 50 minutes</p>	<p><i>Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Supervising Science Research Specialist of TABDS</i></p>
<p>3. Fill-up Customer/ Client Satisfaction Survey (CCSS) Form.</p>	<p>3.1 Collect and file the filled-up Customer/Client Satisfaction Survey (CCSS) Form.</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Supervising Science Research Specialist of TABDS</i></p>
		<p>TOTAL</p>	<p>2 hours and 3 minutes</p>	



B. Technology Advisory and Business Development Services - Long-term Consultancy Services

Consultancy is requested by an individual, company, or association designed to suit their specific requirements. A long-term consultancy service is more than one (1) day engagement classified as Free or Package.

A Package Consultancy Service is rendered with a specified duration and under a cost-sharing arrangement or fully paid, specified in the consultancy contract.

Office/Division:	Technology Diffusion Division – Technology Advisory and Business Development Section			
Classification:	Highly Technical			
Type of Transaction:	G2C - Government to Citizen G2B - Government to Business Entity G2G - Government to Government			
Who may avail:	All			
CHECKLIST OF REQUIREMENTS			WHERE TO SECURE	
1. Request Letter / one (1) copy			Requesting Party	
2. Signed Consultancy Contract / one (1) copy			Requesting Party	
3. Billing Statement / one (1) original copy			TABDS, FAD-FMS	
4. Payment (cash or check)			Requesting Party	
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Inquire or request for technical assistance/ consultancy services through letter, phone, fax, email or personally.	1. Evaluate client's inquiry/request and/or accomplish the Technical Assistance Request and Report Information System (TARRIS).	None	8 minutes	Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Supervising Science Research Specialist of TABDS



<p>2. Agree to on-site consultancy visit through phone, email or text/<u>SMS</u>.</p>	<p>2.1 Provide tentative schedule of visit.</p> <p>2.2 Check availability of consultant and/or technical staff.</p> <p>2.3 Prepare a proposal, including costing if the consultant and/or technical expert is non-TABDS personnel.</p> <p>2.4 Send a proposal to the client.</p>	<p>None</p>	<p>45 minutes</p>	<p><i>Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Supervising Science Research Specialist of TABDS</i></p>
<p>3. Confirm the conduct of on-site consultancy by sending back the signed proposal.</p>	<p>3.1 Finalize schedule of visit with the client.</p> <p>3.2 Organize consultant and/or technical staff.</p> <p>3.3 Request and approval of Authority to Travel, if required. Prepare Job Order.</p>	<p>None</p>	<p>2 hours and 10 minutes</p>	<p><i>Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Supervising Science Research Specialist of TABDS</i></p> <p><i>Consultant and/or Technical Staff</i></p>



	3.4 Consultant and/or technical staff travel to the site on the scheduled date	None	1 day	
4. Attend on-site consultancy activities.	4.1 Provide on-the-spot expert advice. Visit can be in conjunction with a conduct of seminar/ training program. (*Duration may depend on the agreed proposal)	Refer to Standard Rates on Consultancy and Other Fees or computed based on applicable circulars	3 days*	<i>Consultant and/or Technical Staff</i>
	4.2 Consultant and/or technical staff reports back to office after on-site visit on schedule date	None	1 day	
	4.3 Prepare Consultancy Report	None	3 days	
	4.4 Request for billing based on agreement and forward to the client.			<i>Administrative Officer IV or Administrative Officer V, Financial Management Section</i>
5. Pay the billing statement.	5.1 Receive billing statement.	None	5 minutes	<i>Administrative Officer IV or Administrative Officer V, Financial Management Section</i>
	5.2 Create Order of Payment (O.P.) manually.			<i>Administrative Officer IV or Administrative Officer V, Financial Management Section</i>



	<p>5.3 Reflect Statement of Account (SOA) details if there are any.</p> <p>5.4 Forward Order of Payment (O.P.) and other documents to Cashier for issuance of Official Receipt (O.R.).</p>			
6. Give cash/check payment and receive Official Receipt.	<p>6.1 Receive cash/check and Order of Payment (O.P.).</p> <p>6.2 Prepare Official Receipt (O.R.)</p> <p>6.3 Stamp "PAID" on all billing documents and release Official Receipt (O.R.)</p>	As stated in the order of payment	5 minutes	<i>Administrative Officer IV, or Administrative Officer V, Financial Management Section</i>
7. Receive and verify recommended course of action per consultancy report or verbal recommendation .	7.1. Send consultancy report, if required, through fax, email or courier	None	15 minutes	<i>-same as step 1-</i>
8. Fill up the Customer/ Client Satisfaction Survey (CCSS) Form.	8.1 Collect and file the filled-up Customer/Client Satisfaction Survey (CCSS) Form.	None	5 minutes	<i>-same as step 1-</i>
		TOTAL	8 days, 3 hours and 33 minutes	



STANDARD RATES ON CONSULTANCY AND OTHER FEES

Rev. 3 / Effectivity Date: 06 November 2019

<u>Establishment of Quality Management System Conforming to ISO 9001</u>			
Activity	No. of Hours	Honoraria of External / Consultant	Consultancy Fee
Consultancy			
Assessment (Initial) on 5S Implementation	8 to 16	<i>No. of hours x 0.023 x MSRmin</i>	Php 500.00 / Mn-Hour
Gap Analysis on Existing QMS	4 to 16	<i>No. of hours x 0.023 x MSRmin</i>	Php 500.00 / Mn-Hour
Evaluation of New/Updated QMS Documents	8 to 24	<i>No. of hours x 0.023 x MSRmin</i>	Php 500.00 / Mn-Hour
Implementation Audit and Monitoring	8 to 32	<i>No. of hours x 0.023 x MSRmin</i>	Php 500.00 / Mn-Hour
Corrective Action Planning on NC after Implementation Audit	8 to 16	<i>No. of hours x 0.023 x MSRmin</i>	Php 500.00 / Mn-Hour
Correction Action Planning on NC found during Certification Audit	4 to 8	<i>No. of hours x 0.023 x MSRmin</i>	Php 500.00 / Mn-Hour
Assessment and Planning prior to Surveillance Audit	8 to 24	<i>No. of hours x 0.023 x MSRmin</i>	Php 500.00 / Mn-Hour
Competency Development of Internal Auditors	8 to 18	<i>No. of hours x 0.023 x MSRmin</i>	Php 500.00 / Mn-Hour
Actions to Address Risks and Opportunities thorough Risk Management Process	8 to 16	<i>No. of hours x 0.023 x MSRmin</i>	Php 500.00 / Mn-Hour



Technologies and Process Improvements and related Concerns			
Activity	No. of Hours	Honoraria of External / Consultant	Consultancy Fee
Consultancy			
Advisory on Metalworking, Metalcasting, Heat Treatment and Electroplating Technologies and Process Improvements and related Concerns	4 (minimum)	No. of hours x 0.023 x MSRmin	Php 500.00 / Mn-Hour
Calibration Measurement Audit Report	n/a	n/a	Php 1,000.00 / report/ artefact
Others			
Local Transportation Allowance (PUV, Venue to MIRDC, v.v.)	n/a		Php 800.00 / visit

C. Technology Advisory and Business Development Services - Conduct of Measurement Audit

Measurement Audit is the comparison of laboratory results to values established by a reference laboratory. It takes into account the measurement uncertainties assigned to the reference value and those reported by the participating laboratory. Performance is evaluated by the internationally accepted method of calculating E_n ratios and is reported in the Measurement Audit Report.

Office/Division:	Technology Diffusion Division – Technology Advisory and Business Development Section	
Classification:	Highly Technical	
Type of Transaction:	G2B - Government to Business Entity	
Who may avail:	All	
	CHECKLIST OF REQUIREMENTS	WHERE TO SECURE
	1. Endorsement/Request Letter/one (1) original copy	Philippine Accreditation Bureau; sent in advance to MIRDC
	2. Calibration Certificate/one (1) original copy	Requesting company
	3. Calibration Certificate of Reference Lab/one (1) copy	MIRDC Laboratory
	4. Signed Job Order Form/one (1) original copy	TABDS



CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
<p>1. Sign Job Order Form and submit client calibration certificate, if available.</p>	<p>1.1 Check availability of Philippine Accreditation Bureau (PAB) endorsement /request letter in Calibration Lab and Technical Service Request (TSR) Form generated by ATD for the art-fact.</p> <p>1.2 Fill out the Technical Assistance Request and Report Information System (TARRIS) and print-out Job Order (J.O.) form</p>	<p>None</p>	<p>10 minutes (may take additional depending on the quantity of the measurement audit reports requested)</p>	<p><i>Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Supervising Science Research Specialist of TABDS</i></p>



<p>2. Proceed to Cashier for the payment of corresponding fees.</p> <p>The client has the option to pay the fees on a separate date but should be prior to the completion of the Measurement Audit Report.</p> <p>For online payment go to: https://www.lbp-eservices.com/egps/portal/index.jsp and proceed to Step 5</p>	<p>2.1 Direct client to the Cashier.</p>	<p>P1,000 /artefact (refer to Standard Rates of Consultancy Fees)</p>	<p>1 minute</p>	<p><i>Senior Science Research Specialist and/ or Senior Science Research Specialist and/ or Supervising Science Research Specialist of TABDS</i></p>
<p>3. Pay the required fee stated in the Job Order (J.O.) form.</p>	<p>3.1 Receive Job Order (J.O.) form.</p> <p>3.2 Create Order of Payment (O.P.) manually.</p> <p>3.3 Reflect SOA details if there are any.</p> <p>3.4 Forward Order of Payment (O.P.) and other documents to Cashier for issuance of</p>	<p>None</p>	<p>5 minutes</p>	<p><i>Administrative Officer IV, or Administrative Officer V, Financial Management Section</i></p>



	Official Receipt (O.R.).			
4. Give cash/check payment and receive Official Receipt	<p>4.1 Receive cash/check and Order of Payment (O.P.).</p> <p>4.2 Prepare Official Receipt (O.R.).</p> <p>4.3 Stamp "PAID: on all billing documents and release Official Receipt (O.R.).</p>	As stated in the order of payment	5 minutes	<i>Administrative Officer V or Administrative Officer II Administrative and General Services Section</i>
5. Confirm submission of Measurement Audit Report to Philippine Accreditation Bureau (PAB) by MIRDC-TABDS.	<p>5.1 Claim Calibration Certificate from ATD. Refer to procedure on Analysis and Testing Services.</p> <p>Note: Release of certificate is dependent on the agreed date between the client and the calibration lab which is reflected in the Technical Service Request (TSR).</p>	Refer to ATD Services Fees	15 minutes	<i>Senior Science Research Specialist and/ or Senior Science Research Specialist or Supervising Science Research Specialist of TABDS</i>
	5.2 Typing/ Encode, checking and signing of	None	2 days	<i>Senior Science Research Specialist or</i>



	Measurement Audit Report.			<i>Senior Science Research Specialist or Supervising Science Research Specialist of TABDS</i>
	5.3 Release to CRO the original copies of the Measurement Audit Report for conveyance to Philippine Accreditation Bureau (PAB).	None	10 minutes	<i>Administrative Aide III FAD-AGSS, CRO</i>
6. Fill up the Customer/ Client Satisfaction Survey (CCSS) Form.	6.1 Collect and file the filled-up Customer/ Client Satisfaction Survey Form	None	5 minutes	<i>Senior Science Research Specialist or Senior Science Research Specialist or Supervising Science Research Specialist of TABDS</i>
		TOTAL	2 days and 51 minutes	

D. Technology Advisory and Business Development Services - Technology Licensing

Technology Licensing pertains to activities involving transfer of knowledge for the manufacture, application or rendering of service of MIRDC-developed technologies and processes which involve the transfer, assignment or licensing of MIRDC intellectual property rights.

Office/Division:	Technology Diffusion Division – Technology Advisory and Business Development Section	
Classification:	Highly Technical	
Type of Transaction:	G2B – Government to Business Entity	
Who may avail:	All	
STAGE 1: REQUEST FOR TRANSFER OF TECHNOLOGY		
CHECKLIST OF REQUIREMENTS		WHERE TO SECURE
<i>Phase 1: Preparatory for the Transfer of Technology</i>		
1. Letter of Intent/one (1) copy	TABDS or Requesting Party	



2. DTI or SEC Registration/one (1) photocopy		Concerned government office		
3. Audited Financial Statement (last 3 years)/one (1) photocopy		Requesting party		
<i>Phase 2: Negotiation for Terms of Licensing and Confirmation of Licensing Agreement</i>				
4. Term Sheet/Licensing Agreement/two (2) copies		TABDS		
<i>Phase 3: Confirmation of Licensing Agreement</i>				
5. Fairness Opinion Report		TABDS		
6. Written Recommendation		TABDS		
7. Signed Licensing Agreement/three (3) original copies		TABDS		
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Proceed to TABDS Office.	1. Evaluate technology requirements and give information of MIRDC-developed technologies. Provide technology demo, if requested.	None	2 hours	Senior Science Research Specialist or Senior Science Research Specialist or Senior Science Research Specialist or Supervising Science Research Specialist TABDS
2. Fill-up pro-forma Letter of Intent.	2. Receive for processing Letter of Intent or Request client to submit Letter of Intent on a later date, if undecided.	None	5 minutes	Senior Science Research Specialist or Senior Science Research Specialist or Senior Science Research Specialist or Supervising Science Research Specialist TABDS
3. Submit supporting documents (i.e. DTI/SEC registration, Financial Reports)	3. If available, request the client to submit supporting documents as proof of business identity and capacity to support licensing requirements.	None	5 minutes	Senior Science Research Specialist or Supervising Science Research Specialist TABDS
4. Sign the Nondisclosure agreement.	4. Prepare Nondisclosure Agreement (NDA).	None	20 minutes	
PHASE 1: PREPARATORY FOR THE TRANSFER OF TECHNOLOGY TIME			2 hours and 30 minutes	



PHASE 2: NEGOTIATION FOR TERMS OF LICENSING AND CONFIRMATION OF LICENSING AGREEMENT				
CLIENT STEPS	AGENCY ACTION	FEEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
5. Concur licensing terms by signing the term sheet or licensing agreement.	5.1 Negotiate terms for licensing.	None	2 days Note: May require several negotiation meetings with client.	<i>Senior Science Research Specialist</i> or <i>Senior Science Research Specialist</i> or <i>Senior Science Research Specialist</i> or <i>Supervising Science Research Specialist of TABDS</i>
	5.2 Prepare endorsement letter of transaction with supporting documents to Fairness Opinion Board (FOB) secretariat	None	2 hours	<i>Senior Science Research Specialist</i> or <i>Senior Science Research Specialist</i> or <i>Senior Science Research Specialist</i> or <i>Supervising Science Research Specialist of TABDS</i>
	5.3 Submit to Fairness Opinion Board (FOB) Secretariat	None	30 minutes Note: 40 days Processing of Fairness Opinion Report & Written Recommendation per RA 10055 IRR	<i>FOB Secretariat</i>
PHASE 2: NEGOTIATION FOR TERMS OF LICENSING AND CONFIRMATION OF LICENSING AGREEMENT TIME			2 days, 2 hours and 30 minutes (excluding FOR processing)	



PHASE STAGE 3: CONFIRMATION OF LICENSING AGREEMENT				
6. Final confirmation to the licensing agreement.	6.1 Inform client upon receipt of Fairness Opinion Report (FOR) and Written Recommendation.	None	15 minutes	<i>Senior Science Research Specialist or Senior Science Research Specialist</i>
	6.2 Send to the client copy of the final licensing agreement (only if the client concurred to the licensing terms in the term sheet; omit this step if the client has signed a licensing agreement).	None	15 minutes	<i>Senior Science Research Specialist or Supervising Science Research Specialist of TABDS</i>
	6.3 Notarize Licensing Agreement.	None	2 days	<i>Administrative Aide III FAD-AGSS, CRO</i>
	6.4 Send Client's copy of Licensing Agreement.	None	2 days	<i>Senior Science Research Specialist or Senior Science Research Specialist or Senior Science Research Specialist or Supervising Science Research Specialist of TABDS</i>
7. Pay licensing fee based on the licensing agreement.	7.1 Issue Order of Payment. 7.2 Accept and Process payment	Per agreement	30 minutes	<i>Administrative Officer IV or Administrative Officer V Financial Management Section Administrative Officer V or Administrative Officer II Administrative and General Services Section</i>



8. Implement terms of licensing.	8.1 Implement terms of licensing.	None	Per agreement	<i>Senior Science Research Specialist</i> or <i>Senior Science Research Specialist</i>
9. Fill-up the Customer/Client Satisfaction Survey (CCSS) Form.	9.1 Collect and file the filled-up Customer/Client Satisfaction Survey (CCSS) Form.	None	5 minutes	<i>Senior Science Research Specialist</i> or <i>Senior Science Research Specialist</i> or <i>Senior Science Research Specialist</i> or <i>Supervising Science Research Specialist of TABDS</i>
PHASE 3: CONFIRMATION OF LICENSING AGREEMENT TIME			4 days, 1 hour and 5 minutes	
TOTAL			6 days, 3 hours and 35 minutes	

Activities are based on Republic Act No. 10055 (Technology Transfer Law), its IRR and related policies.



TECHNOLOGY DIFFUSION DIVISION

Internal Services



I. Assistance to Staff Development Unit (SDU) of MIRDC

The Assistance to Staff Development Unit (SDU) of MIRDC is an internal service where MIRDC employees can also avail the regular training/seminar program provided by ITS for strengthening the competency of MIRDC personnel.

Office/Division:	Technology Diffusion Division-Industrial Training Section (ITS)			
Classification:	Simple			
Type of Transaction:	G2G - Government to Government			
Who may avail:	MIRDC Personnel			
CHECKLIST OF REQUIREMENTS	WHERE TO SECURE			
Authority to Attend	Administrative and General Services Section, FAD			
CLIENT STEPS	AGENCY ACTION	FEES TO BE PAID	PROCESSING TIME	PERSON RESPONSIBLE
1. Present/Submit Memorandum of Authority to Attend	1.1 Include in the list of attendees.	None	5 minutes	<i>Training Specialist I</i> , Program Design and Promotion (PDP) Unit or <i>Training Specialist II</i> , Program Design and Promotion (PDP) Unit or <i>Training Specialist III</i> , Program Design and Promotion (PDP) Unit
	2.2 Prepare the materials and the logistics necessary to hold the training		4 days and 40 minutes	
2. Attend training (Trainee must take the post-examination and accomplish the evaluation before it can claim the Certificate).	2.1 Conduct the Training		Depends on the program	Resource Speaker
			TOTAL	4 days, 45 minutes



SITUATION	ACTION	LOCATION OF ACTION	REMARKS
If there is an available slot in the regular program, the ITS will inform the SDU to invite an internal participant (MIRDC Employee) to attend the program with corresponding Authority to Attend (ATA).	The ITS Training coordinator in-charge will give to SDU a Customer/Client Satisfaction Measurement Survey Form for Internal Services.	ITS Office or HR Office	Collect the accomplished CCSM form and forward it to Planning and Management Division (PMD).



FEEDBACK AND COMPLAINTS MECHANISMS	
How to Send a Feedback?	<ul style="list-style-type: none"> ● Accomplish our Customer Satisfaction Survey (CSS) Form provided by our front-liners and return the accomplished form to said front-liner ● Send your feedback through electronic message accessible at MIRDC website or email it at http://www.mirdc.dost.gov.ph, or ● Personally talk to the Executive Director of the Center
How are Feedbacks Processed?	<ul style="list-style-type: none"> ● Our front-liners collect, check for completeness, compile and record all CSS Forms ● Customer Satisfaction Rating below 3 are reported to the immediate supervisor concerned for appropriate action; the recommended action are recorded by the respective Division Chiefs. ● All survey responses are consolidated and monitored, evaluated and analyze by the PMD in order to identify opportunities for improvement.
How to File a Complaint? (For Goods-Related Complaints)	<ul style="list-style-type: none"> ● Accomplish our Customer Feedback Form and send it to the Division/Section Chief concerned ● Provide details as much as possible ● Return the product/s, if advised.
How are complaints Processed?	<ul style="list-style-type: none"> ● A control number will be assigned on the CSF Form ● Your complaint will be reviewed by the Division/Section Chief concerned and you will be contacted to get more details, if necessary ● You will be advised to return product/s, whenever applicable ● Goods will be tested/inspected, if applicable, and you will be informed of the findings/ recommendation ● Product will be rework/replace, whenever necessary
How to File a Complaint (For Service-Related Complaints)	<ul style="list-style-type: none"> ● Accomplish our CSF Form which will be forwarded to the concerned Division ● Third party may file on behalf of the complainant provided the complainant is identified on the CSF form.



How are Complaints Processed?	<ul style="list-style-type: none"> ● Customer's complaint will be acted upon within 15 working days from date of receipt ● Concerned Division Chief will discuss customer's complaint with concerned unit and approves the action to be taken ● Concerned unit will take the appropriate correction/corrective action ● Feedback will be relayed to the complainant
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Contact Information:	
Anti-Red Tape Authority (ARTA)	ARTA: complaints@arta.gov.ph 1-ARTA (2782)
Presidential Complaints Center (PCC)	PCC: pcc@malacanang.gov.ph 888 (02) 8736-8621
Contact Center ng Bayan CCB (CCB)	CCB: e-mail@contactcenterngbayan.gov.ph 1-6565 (hotline) 0908-881-6565 (SMS)
Legal and Public Assistance office (LPAO)	LPAO: (02) 8929-9436; (02) 84262075; (02) 84262801; (02) 84262450; (02) 84262987; (02) 84262683



OFFICE

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