

Equipment list of Ongoing Projects, Digwadih Campus

Sl. No.	PROJECT NO	EQUIPMENT NAME
1.	MLP-147/2020-21	1. Feed Crusher with screen/coal conveying, 2. Essential components of PFBG for redundancy, 3.Safety equipments
2.	MLP-151/2021-22	1.Micro-reactor 2. BET Surface Area Analyzer 3. Rotary evaporator 4. Magnetic stirrer 5. pH meter 6. Vacuum oven 7. MFC 8. High pressure gas regulator 9. Fabricated CO2 absorption system 10. Automatic Karl Fischer Titrator
3.	MLP-153/2021-22	1. Gas Permeation unit fabrication 2. Gas Chromatography 3. Electrochemical Workstation with RDE Set Up
4.	MLP-154/2021-22	1. Analytical Balance 2. Biomass cutting mill/crusher 3. Ball mill with different sizes of balls 4. Palletizer machine (Hydraulic pellet press) and die with different sizes (as per the requirement 5. Stainless steel hot water boiler (Domestic boiler 6.Tumbling (Tumbler) machine (Pellet durability tester 7.Pellet Hardness / compressive strength tester
5.	MLP-155/2021-22	1.Fluoromax-4C (Steady-state and lifetime), including DeltaTime kit for NanoLED source on FluoroMax systems, NanoLED-390, NanoLED-455, NanoLED-570 2. Teflon-lined autoclave for hydrothermal treatment 3.UV Torch / UV Lamp 4.Ultrasonicate
6.	MLP-171/2022-23	1.Hot Air Oven 2.PH Meter 3.Vibratory Sieve Shaker 4.Heating Mantels 5.Soxhlet extraction unit

7.	MLP-172/2022-23	<ol style="list-style-type: none"> 1.Sieves 2.Concrete Moulds (Cubes & Cylindrical 3.Density Basket 4.Slump Apparatus 5.Rebound Hammer Test (Dig 6.Ultra Sonic Pulse Velocity Test 7.Fly Ash Brick Machine 8.Balance (HD 9.Calibrated CTM
8.	MLP-174/2022-23	<ol style="list-style-type: none"> 1. Fluidization Experimental facility with different (04) combinations (cold & hot set-up) of fluidized bed reactor (Glass and Quartz 2. ANSYS-Fluent software
9.	MLP-176/2022-23	<ol style="list-style-type: none"> 1. Gas Cylinder with regulators 2. Rotameter 3. Modification in existing set up, PLC Software & Hardware update, AMC, Workstation upgrade
10.	MLP-177/2022-23	<ol style="list-style-type: none"> 1. Tar Cracker 2. Chiller
11.	MLP-178/2022-23	<ol style="list-style-type: none"> 1. Centrifuge 2. Inductively Coupled Plasma Optical Emission spectroscopy (ICP-OES)
12.	MLP-157/2021-22	Contact Angle optical tensiometer
13.	MLP-158/2022-23	<ol style="list-style-type: none"> 1.Fabrication of 1 kg/batch reactor 2. tube furnace 3. ball mill
14.	HCP-32/2020-21	<ol style="list-style-type: none"> 1) 1.5 TPD Advanced dual bed gasification system. 2) Syngas cleaning, conditioning and syngas to methanol reactor system(capacity 250 kg/day methanol)
15.	HCP-54/2023-24	Pilot Scale Filter
16.	GAP-7043	Plant Cost / Prototype Design Demonstration Models & Fabricated Systems
17.	GAP-7046	<ol style="list-style-type: none"> 1.GAUSSIAN VERSION 16 (64 BIT) Single user license on Windows Platform 2. GAUSS VIEW VERSION 6 Single user license on Windows Platform 3.Temperature controlled tubular reactor