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# H M & F M LAB

S. No.	Date	Section	Equipment Defects	Maintenance Carried out
1	5.1.11	H.M. LAB	Multi stage pump	Alignment <del>Case</del> Adjusted
2	8.1.11	H.M. LAB	Centrifugal pump	Discharge line changed
3	9.2.11	H.M. LAB	Stage pump, Jet pump	Piezometre glass tubes and Adapters changed
4	5.2.11	F.M. LAB	Pipe friction apparatus	venturi metre Mercury filled
	8.2.11	F.M & H.M	All equipments	Painted
6	10.2.11	H.M. LAB	Multi Stage pump	Coupling bushes Changed
7	15.2.11	H.M. LAB	Three Tachometres	Repaired by E.E. Dept.
8	25.2.11	F.M. LAB	1 1/2" Flexible hoses and clips	changed Reynold apparatus, pipe friction, cases in pipe line etc.
9	1.3.11	H.M. LAB	Hydraulic Ram (not developing sufficient pressure).	Rubber seal and gasket changed
10	4.3.11	H.M. LAB	Hydraulic Ram	New power switch fitted
11	4.3.11	F.M LAB	Pipe friction & Reynold Apprs	motor Connected
12	7.3.11	H.M LAB	Reciprocating pump	oil filled
13	11.3.11	H M Lab	Reciprocating pump Over flow pipe leaking.	Over flow pipe renewed and working satisfactorily.
	11.3.11	H M Lab	Centrifugal pump over flow pipe leaking.	Over flow pipe

For AB  
 2/10/2011  
 ABIN BABY  
 LAB-IN-CHARGE

Sl. No	DATE	SECTION	EQUIPMENT DETAILS	MAINTENANCE DONE / REPAIR	DATE OF COMPLETION	NUMBER OF EQUI. SER.	REMARKS
128	13/10/21	HM	RE-PELCON WHEEL FOOT WOLVE	REMOVED & SERVICES PAINTED	14/11/21	1	
129	12/11/21	HM	RECIPROCATING PUMP - MAGNATE	HOSE re-assembly	12/12/21	1	
130	10/12/21	F4	VENTURRY METER - METRALLY CLEAN	ASSEMBLED	20/11/21	1	
131	28/12/21	FM2HM	All tanks water drained	Rust removed, cleaned	29/12/21	1	
132	14/1/22	FM2HM	All equipments on general	Checkup, leakages rectified	14/1/22	1	
133	24/2/22	FM2HM	All equipments General checkup	water filter	24/2/22	1	
134	19/3/22	FM2HM	All equipments central fusal pump	Grease/oil/oilies, leakages rectified	19/3/22	1	
				Suction pipe leakage rectified	19/3/22	1	

Sl. No	DATE	SECTION	EQUIPMENT DETAILS	MAINTENANCE DONE / REPAIR	DATE OF COMPLETION	NUMBER OF EQUI. SER.	REMARKS
128	13/10/21	HM	RE-PELCON WHEEL FOOT WOLVE	REMOVED & SERVICES PAINTED	14/11/21	1	
129	12/11/21	HM	RECIPROCATING PUMP - MAGNATE	HOSE re-assembly	12/12/21	1	
130	10/12/21	F4	VENTURRY METER - METRALLY CLEAN	ASSEMBLED	20/11/21	1	
131	28/12/21	FM2HM	All tanks water drained	Rust removed, cleaned	29/12/21	1	
132	14/1/22	FM2HM	All equipments on general	Checkup, leakages rectified	14/1/22	1	
133	24/2/22	FM2HM	All equipments General checkup	water filter	24/2/22	1	
134	19/3/22	FM2HM	All equipments central fusal pump	Grease/oil/oilies, leakages rectified	19/3/22	1	
				Suction pipe leakage rectified	19/3/22	1	

13/10/21  
 12/11/21  
 10/12/21  
 28/12/21  
 14/1/22  
 24/2/22  
 19/3/22



Internal Quality Assurance Cell (IQAC)  
 Mangalam College of Engineering  
 Kottayam, India - 686 631


Dr. K. PRATHESH  
 Principal  
 Mangalam College of Engineering

Dept of  
 Department

# FITTING & CARPENTRY

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S.No	Date	Section	Equipment Defect.	Maintenance carried out.
1	6.1.11	Carpentry	Carpentry vice	greasing.
2	13.1.11	Fitting	Fitting vice	greasing.
3	2.2.11	Carpentry	Carpentry vice	Bolt changing.
4	24.2.11	Carpentry and fitting,		equipment are Painted.
5	25.3.11	Carpentry	Bench Vice holding bolt loosened.	Tightened the holding bolts.
6	3.4.11	Fitting	Painting of Bench vices.	As part of maintenance.
7	3.4.11	Carpentry	Carpentry vice Painted.	As part of maintenance
8	5.4.11	Carpentry	O2 NO Carpentry vice screw thread welded. / repaired	Maintenance carried out.
9	18.5.11	Fitting & Carpentry	General cleaning and greasing of machines.	Maintenance carried out.
10	10.6.11	Fitting & Carpentry.	General cleaning and maintenance	completed.
11	11.7.11	Carpentry Shop	All bench vices checked and lubricated.	Maintenance carried out.
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 Albert Mathew  
 LAB-IN-CHARGE

S/N	DATE	EQUIPMENT	DEFECT	MAINTENANCE
54	18/1/22	CARPENTRY & FITTING	GENERAL	REPAIRS
55	22/2/22	SMITH WORKING	GENERAL	REPAIRS
56	20/3/22	SAFETY TESTING	General	repair

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 LAB-IN-CHARGE  
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 Head of Department

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 Kottayam, India - 686 631



MAINTENANCE CARRIED OUT	DATE OF COMPLETED	SIGN	REMARKS
SHARPENING OF MISCELL. TOOL/PANE	18/1/22	SM	
BLOWERS CLEANED	19/1/22	SM	
vice screws oily, Jack planes lightened, nails repaired	26/3/22	SM	


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# HE LAB, HT LAB & MEASUREMENT LAB

S. No.	Date	Section	Equipment Defect	Maintenance carried out
1.	4.1.2011	HE Lab	Single cylinder engine cooling pipe broken.	pipe replaced with new one.
2.	28.1.11	HE Lab	4 cylinder engine mono meter breaking	leakage rectified.
3.	22.2.11	"	General maintenance including painting	completed
3.	22.2.11	M. Lab	Dead weight pressure Gauge not working.	Defectation in progress.
4.	23.2.11	M.E Lab	Wringing of shaft bearing defective.	Replace the bearing with new one. (Bearing so.)
5.	28.2.11	H.T Lab	Heat transfer through lag pipe Temperature gauge not working	Gauge electrical system checked and defect rectified.
6.	23.3.11	Measurement Lab.	Dead wood pressure Gauge not working.	oil changed and air purged out.
7.	18.4.11	Measurement Lab	Dead wood pressure Gauge defective	pressure Gauge replaced with new one.
8.	27.4.2011	HE Lab	4 stroke single cylinder engine started	did routine checks.

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 BBN IN CHARGE  
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S/No	Date	Section	Equipment	Defect
103	12/7/21	Thermal I	General	Check up of all equipment and engine
104	15/9/21	Thermal I	Loss	leakage water
104	13/11/21	Thermal I	Water pump	pump repair
105	18/12/21	Thermal I	General	check up of all equipments
106	18/12/21	Thermal I	Compressor	2 diesel engine, oil filter changed
106	12/1/22	Thermal I	Starting	trouble 4 cy diesel
107	13/1/22	Thermal I	Periscope	engine
108	13/1/22	Thermal II	Insulating	panels repaired
109	21/2/22	Thermal I	4 cy	DE apparatus
109	25/2/22	Thermal II	Water	pump priming and startles
110	5/3/22	Thermal I	Petrol	engine (single cy)
111	5/3/22	Thermal I	4 cy	diesel engine
111	16/3/22	Thermal II	All	apparatus
112	6/4/22	Thermal II	Air	condition apparatus
112	6/4/22	Thermal II	Refrigeration	apparatus

  
 Dr. S. PRATHESH  
 Head of Department  
 Department of Mechanical Engineering  
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S/No	Date	Section	Equipment	Defect
103	12/7/21	Thermal I	General	check up of all equipment
104	15/9/21	Thermal I	Loss	leakage Diesel oil
104	13/11/21	Thermal I	Water pump	pump repair
105	18/12/21	Thermal I	General	check up of all equipments
106	18/12/21	Thermal I	Compressor	2 diesel engine, oil filter changed
106	12/1/22	Thermal I	Starting	trouble 4 cy diesel
107	13/1/22	Thermal I	Periscope	engine
108	13/1/22	Thermal II	Insulating	panels repaired
109	21/2/22	Thermal I	4 cy	DE apparatus
109	25/2/22	Thermal II	Water	pump priming and startles
110	5/3/22	Thermal I	Petrol	engine (single cy)
111	5/3/22	Thermal I	4 cy	diesel engine
111	16/3/22	Thermal II	All	apparatus
112	6/4/22	Thermal II	Air	condition apparatus
112	6/4/22	Thermal II	Refrigeration	apparatus

  
 Dr. S. PRATHESH  
 Head of Department  
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# MACHINE SHOP & A.J. MACHINE SHOP

Date	Section	Equipment defects	Maintenance carried out
1. 8.1.2011	Adv. Mach.	No 5. Shaper vice shifting to position while operation.	Vice holding Belts tightened.
2. 10.2.2011	"	No 5 shaper not working in Auto mode	—
3. 11.2.2011	"	General maintenance	General maintenance of all shapers done by oil changing. Belt guards fitted back
4. 16.2.2011	"	No 8 shaper motor not working.	Electrical problem rectified.
5. 11.3.2011	"	No 3 shaper swivel block not holding.	Swivel block removed and refitted back.
6. 14.1.2011	"	No 1 milling machine Arbor shaft giving more vibrations.	Arbor shaft removed and checked and correct the traverses
7. 25.3.2011	Adv. Mach	No 2 <sup>shaper</sup> swivel head not holding properly	Swivel head attachment tightened and working satisfactory
8. 25.8.2011	"	No 6 shaper swivel head loose and not holding properly while loading.	Head cross feed removed and attachment tightened.



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SL NO	DATE	SECTION	EQUIPMENT	DEFECTS	MAINTENANCE CARRIED OUT	DATE COMPLETED	SIGN	REMARKS
109	18/1/22	M7-1	LATHES	ELECTRICAL	RECTIFIED	18/1/22	SA	
110	17/2/22	MT-1	SHAPERS	General maintenance	Oiling, Greasing, belts tightened	17/2/22	SA	
111	23/2/22	MT-1	LATHES	General maintenance	Oiling, Greasing, belts tightened	23/2/22	SA	
114	24/2/22	MT-2	OP GRIP	General maintenance	Greasing, instrument, CNC	24/2/22	SA	
115	3/03/22	CNC	CNC	ELECTRICAL	Found cable damaged repaired	3/3/22	SA	
116	25/3/22	M7-1	LATHES	all lathes	General maintenance	25-6/22	SA	
117	2/4/22	M7-2	Shapers Slotters Milling M/c	General maintenance good servicing	Oiling, Greasing, Belt loose adjusted Joints tightened	2/4/22	SA	

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SL NO	DATE	SECTION	EQUIPMENT	DEFECTS	MAINTENANCE CARRIED OUT	DATE COMPLETED	SIGN	REMARKS
109	18/1/22	M7-1	LATHES	ELECTRICAL	RECTIFIED	18/1/22	SA	
110	17/2/22	MT-1	SHAPERS	General maintenance	Oiling, Greasing, belts tightened	17/2/22	SA	
111	23/2/22	MT-1	LATHES	General maintenance	Oiling, Greasing, belts tightened	23/2/22	SA	
114	24/2/22	MT-2	OP GRIP	General maintenance	Greasing, instrument, CNC	24/2/22	SA	
115	3/03/22	CNC	CNC	ELECTRICAL	Found cable damaged repaired	3/3/22	SA	
116	25/3/22	M7-1	LATHES	all lathes	General maintenance	25-6/22	SA	
117	2/4/22	M7-2	Shapers Slotters Milling M/c	General maintenance good servicing	Oiling, Greasing, Belt loose adjusted Joints tightened	2/4/22	SA	

Dr. K. PRATHEESH  
LAB-IN-CHARGE

Dr. K. PRATHEESH  
Head of Department

Internal Quality Assur  
Mangalam Coll.  
Kottayam



Dr. K. PRATHEESH  
PRINCIPAL  
MANGALAM COLLEGE OF ENGINEERING

Department of Mechanical Engineering

# SMITHY & FOUNDRY

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Sr. No	Date	Section	Equipment Defect	Maintenance Carried out.
1.	5/2/11	Smithy.	Hammer handle Broken (Four numbers)	replaced with new handle.
2.	8.3.11	Smithy	2 or 30 tongs locking system damaged.	locking rings replaced.
3.	10.3.11	"	General cleaning of the shop	Completed.
4.	3.8.11	Smithy	General cleaning of shop	Completed.
5.	12.3.12	Foundry	Moulding box damaged	repaired and corrected.
6.	5.10.12	Smithy	Hammer handle damaged.	Handle repaired and corrected.
7.	5.1.13	Foundry Smithy.	General maintenance of tools and equipments	carried out.
8.	10.2.13	"	Painting of workshop	done.
9.	15.3.13	"	Cleaning of tools and equipments	carried out.
10.	10.11.13	Smithy & Foundry Shop	Cleaning of all tools and equipment	done prior to the commencement of 1 <sup>st</sup> year classes.

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Albert Mathan  
LAB-IN-CHARGE

Sl No	Date	Section	Equipment/Defect	Maintenance Carried
21	18/8/21	smithy	General checkup	blowers, tools
22	20/10/21	welding & Foundry	General checkup	oil level welding m/c
23	10/2/22	smithy	General checkup	blowers & tools
24	17/2/22	welding	General checkup	
25	26/3/22	smithy & welding	General maint	blowers cleaned oil check up welding m/c.

*Albert Mathew*  
LAB-IN-CHARGE

*Dr. R. Pratheesh*  
Head of Department  
Department of Mechanical Engineering

Internal Quality Assurance Cell (IQAC)  
Mangalapuram  
Kerala-686 631

*Pradip*  
PRINCIPAL  
MANGALAM COLLEGE OF ENGINEERING

