

# LABOUR CHARGES FOR REPAIR OF MACHINES & VEHICLES

S.No	Item	Unit	Road	Tractors	With P-6	Mixal
			Rollers	Rate	Engine	Plant
			Rate	Rate	Rate	Rate
1	Complete Overhauling of engine, including opening, cleaning & refitting with test & trial (Machining work extra, Cost of P.O.L., & Parts and charges of loading, unloading of engine from chasis extra).	Per Job	4500.00	4500.00	4500.00	2025.00
2	L/c for top over hauling of engine & ridge cutting with test & trial complete. (Engine loading, unloading charges from chasis & Cost of Parts, P.O.L. extra).	Per Job	2950.00	2950.00	4400.00	1500.00
3	L/c for Engine Head gasket & Tappet Cover changing (Cost parts extra).	Per Job	550.00	550.00	760.00	350.00
4	L/c for Overhauling of M.Oil circulating pump & fitting new parts (Cost spares extra).	Per Job	350.00	350.00	350.00	210.00
5	L/c for changing of new oil pump (Cost of Pump extra)	Per Job	210.00	210.00	210.00	
6	L/c for extracting of old fly wheel ring & fitting new fly wheel ring (Cost part extra)	Per Job	350.00	350.00	350.00	
7	L/c for unloading engine from chasis & refitting after over hauling.	Per Job	480.00	480.00	480.00	205.00
8	L/c for changing of Tappet Cover Packing.	Per Job	140.00	140.00	140.00	70.00
9	L/c for changing of engine chamber packing (excluding labour charge for engine loading & unloading).	Per Job	160.00	160.00	210.00	120.00
10	L/c for changing of Timing Cover Packing.	Per Job	160.00	160.00	210.00	120.00
11	L/c for extracting of old sleeve & fitting new sleeve.	Persleeve	250.00	250.00	250.00	250.00
12	L/c for Pump Timing Setting (with out opening the Timing Cover).	Per Job	160.00	160.00	160.00	90.00
13	L/c for over hauling of Auxilary System with changing of Bush & Bearing (excluding Cost parts) (only for engine with Timing Chain System).	Per Job	410.00	410.00	410.00	
14	L/c for Cylinder boring & polishing.	Per Cylinder	200.00	200.00	200.00	200.00
15	L/c for Crank Grinding & Polishing.	Per Pin	175.00	175.00	175.00	175.00
16	L/c for cam shaft grinding & polishing.	Per Pin	150.00	150.00	150.00	150.00
17	L/c for cam'shaft bush fitting and reamering.	Per Bush	200.00	200.00	200.00	200.00
18	L/c for engine main line boring & polishing.	Per Job	1050.00	1050.00	1180.00	480.00
19	L/c for connecting Rod Bush fitting & reamering.	Per Bush	100.00	100.00	100.00	100.00

S.No	Item	Unit	Road Rollers	Tractors	With P-6 Engine	Mixal Plant
20	L/c for Piston Top cutting & checking if necessary (only for perkin engines).	Per Piston	120.00	120.00	120.00	
21	L/c for Head Seat cutting & fitting (cost of seat extra).	Per seat	140	140.00	140	140
22	L/c for valve Refacing & Grinding.	Per valve	75.00	75.00	75.00	75.00
23	L/c for extracting old valve Guide Seat & fitting new and reamering.	Per guide	50.00	50.00	50.00	50.00
24	L/c for engine Head Facing.	Per Job	500.00	500.00	685.00	250.00
25	L/c for Timing Cover opening & changing Auto Tensioner Assembly/timing chain with fitting.	Per Job	350.00	350.00	350.00	270.00
26	L/c for Rocker Bush fitting & reamering.	Per Bush	75.00	75.00	75.00	75.00
27	L/c for engine main oil seal & chamber packing changing (L/c for engine loading, unloading extra).	Per Job	280.00	280.00	280.00	170.00
28	L/c for cylinder honing & ridge cutting.	Per Cylinder	175.00	175.00	175.00	175.00
29	L/c for valve seat grinding.	Per seat	85.00	85.00	85.00	85.00
30	L/c for A/C. / Feed Pump over hauling (cost of spares extra.)	Per Job	140.00	140.00	140.00	
31	L/c for opening old A.C. / Feed pump & fitting new.	Per Job	110.00	110.00	110.00	
32	L/c for fuel injection Pump Calibration and Testing.	Per Job	350.00	350.00	470.00	
33	L/c for Fuel injection Pump over hauling (excluding cost of parts.)	Per Job	550.00	550.00	760.00	230.00
34	L/c for Injector Nozzle Grinding, Testing & Setting.	Per Nozzle	80.00	80.00	80.00	80.00
35	L/c for fitting of New Nozzle with pressure setting (excluding cost of parts.)	Per Nozzle	65.00	65.00	65.00	65.00
36	L/c for changing of Fibre Coupling (Cost of spare parts extra).	Per Job	120.00	120.00	120.00	
37	L/c for F.I. Pump Governor repairing/ Diaphragm changing (Cost of spares parts extra.)	Per Job	180.00	180.00	180.00	
38	L/c for opening & fitting of Nozzle Pipe/Flexible Pipe (cost of spare parts extra).	Per Job	45.00	45.00	45.00	45.00
39	L/c for engine Timing & Tappet Setting.	Per Job	350.00	350.00	350.00	45.00
40	L/c for Fly Wheel facing (only for A.M., G.R.W. Rollers).	Per Job	210.00	210.00	210.00	210.00
41	L/c for engine block facing.	Per Job	350.00	350.00	350.00	260.00
<b>COOLING SYSTEM</b>						
42	L/c for over hauling os water pump assembly with changing of repair kit (Cost of spares extra).	Per Job	230.00	230.00	230.00	140.00
43	L/c for opening old water pump & fitting new.	Per Job	120.00	120.00	120.00	80.00
44	L/c for opening of Radiator & Refitting the same.	Per Job	230.00	230.00	230.00	140.00

S.No	Item	Unit	Road Rollers	Tractors	With P-6 Engine	Mixal Plant
45	L/c for opening of Upper & Lower Tank of Radiator, Cleaning, soldering & refitting the tanks.	Per Job	650.00	650.00	700.00	340.00
46	L/c for Radiator column soldering & Repairing.	Per Column	65.00	65.00	75.00	35.00
47	L/c for Radiator foundation changing (Cost of spares & L/c of Radiator opening & fitting extra.)	Per Job	45.00	45.00	45.00	35.00
48	L/c for Radiator cleaning & leakage repairing and refitting.	Per Job	450.00	450.00	550.00	210.00
49	L/c for water body bearing seat welding & Turning	Per Job	400.00	400.00	400.00	400.00
50	L/c for repair of water body with new bush fitting & reamering.	Per Job	275.00	275.00	275.00	175.00
51	L/c of changing of hose pipe/fan belt (Cost of Spares extra.)	Per Job	82.00	82.00	82.00	50.00

### ELECTRICAL WORK

52	Complete wiring of vehicle/road roller with Cost of Material.	Per Job	1320.00	1320.00	1320.00	
53	Repairing of old wiring, taping and removing the fault of Road roller/vehicle.	Per Job	650.00	650.00	560.00	
54	L/c for self starter over hauling.	Per Job	350.00	350.00	350.00	
55	L/c for self Field coil retaping.	Per Job	235.00	235.00	235.00	
56	L/c for self starter armature rewinding with Cost of material.	Per Job	1485.00	1485.00	1485.00	
57	L/c for new bush fitting in self starter & reamering as per Armature shaft (Cost of Bush extra.)	Per Job	250.00	250.00	250.00	
58	L/c for Dynamo Armatre rewinding with Cost of material.	Per Job	1025.00	1025.00	1025.00	
59	L/c for Dynamo Overhauling (Cost of material extra.)	Per Job	235.00	235.00	235.00	
60	L/c for Dynamo Bush & Bearing changing & bush reamering Cost of material extra).	Per Job	75.00	75.00	75.00	
61	L/c for Dynamo/Alternater Bush & Bearing Changing & Bush reamering Cost of materal .	Per Job	140.00	140.00	140.00	
62	L/c for cut-out repairing & setting (Cost of material extra).	Per Job	110.00	110.00	110.00	
63	L/c for opening of old cut-out & fitting new & setting the same (Cost of cut out extra).	Per Job	65.00	65.00	65.00	
64	L/c for battery charging 12 volt 25 plate with material.	Per Job	265.00	265.00	265.00	
65	L/c for battery charging 12 vold 17 plate with material.	Per Job	265.00	265.00	265.00	
66	L/c for Battery socket soldering with material.	Per Job	65.00	65.00	65.00	
67	L/c for Battery pole repairing with Cost of material.	Per Job	87.00	87.00	87.00	
68	L/c for changing of Amp. Meter & other meters (Cost of Material extra).	Per Job	110.00	110.00	110.00	
69	L/c for horn repairing & Point changing Cost of Material extra).	Per Job	65.00	65.00	65.00	

S.No	Item	Unit	Road Rollers	Tractors	With P-6 Engine	Mixal Plant
70	L/c for Light repairing & changing of fused bulbs (Cost of Material extra).	Per Job	140.00	140.00	140.00	
71	L/c for self solenoid switch coil changing.	Per Job	210.00	210.00	210.00	

### CLUTCH SYSTEM

72	L/c for clutch system opening clutch plate changing & refitting clutch system with test & trial (Cost of parts & P.O.L. extra).	Per Job	1080.00	1080.00		350.00
73	L/c for clutch fork welding, repairing & refitting the same.	Per Job	300.00	300.00		
74	L/c for changing of clutch release bearing (excluding Cost of parts & engine loading & unloading extra).	Per Job	350.00	350.00		
75	L/c for pressure plate repair kit changing (engine loading, unloading L/c & Cost of kit extra).	Per Job	470.00	470.00		
76	L/c for changing of clutch segment of B.M. road rollers (Cost of spares extra).	Per Job	295.00			
77	L/c for clutch coupling changing for A.J. Road Rollers (Cost of spares extra).	Per Job	295.00			
78	L/C for clutch fork shaft welding truning with opening & fitting for B.M. & A.M. road roller.	Per Job	385.00			
79	L/c for clutch shaft oil seal changing for B.M. rollers cost of oil seal extra).	Per Job	330.00			
80	L/c for pressure plate over hauling with facing.	Per Job	595.00	595.00		
81	L/c for clutch setting & adjusting.	Per Job	355.00	295.00		
82	L/c for changing of clutch lining (Cost of spare parts extra).	Per Job	355.00	355.00		
83	L/c for sliding bearing inner, outer clamping plate welding turning (for A.J. Angad & B.M. Road Rollers) ( Cost of spare parts extra).	Per Job	475.00			
84	L/c for Groove cutting, welding & milligin distance tube.	Per Job	1050.00			

### GEAR BOX/TRANSMISSION

85	L/c for complete overhauling of gear box, per Job including changing of parts with test & trial. (Parts and POL charges extra).	Per Job		1250		
A	,-----do----- only for A.M. B.M. roller	Per Job	1400.00			
B	,-----do----- only for Jessop/Speed Craft/ Angad/GRW/WILSON or equivalent road rollers	Per Job	1100.00			
86	L/c for match gear set changing including opening & fitting of gear box & differntial as required to complete the job including test & trial (Cost of spare parts extra).	Per Job	1350.00			

S.No	Item	Unit	Road Rollers	Tractors	With P-6 Engine	Mixal Plant
87	L/c for cutting of gear box oil seal and packing. (Parts charges extra).	Per Job	375.00	270		
88	L/c for cutting of properller shaft teeth, welding and cutting of new yoke & teeth only for A.J. roller, angad & B.M. rollers.	Per Job	1500.00			

### **DIFFERENTIAL SYSTEM**

89	L/c for complete overhauling of differential including opening and fitting of parts. (Cost of parts extra).	Per Job		1400		
	Only Jessop/ANGAD/SPEED CRAFT/GRW/WILSON or equivalent road rollers.	Per Job	1400.00			
	Only A.M./ B.M or equivalent Road rollers.	Per Job	1150.00			
90	L/c for changing of differential oil seal (L/c for opening & fitting of wheel and cost of spare extra).	Per Job	300.00	300.00		

### **AXLE & WHEEL / SUSPENSION**

91	L/c for welding, turning of rear wheel axle (L/c for opening, fitting of rear wheel extra).	Per Job	3000.00			
92	L/c for welding, turning of front wheel axle (L/c for opening, fitting of front wheel extra).	Per Job	2700.00			
93	L/c for removing of old rear wheel bushes & fitting of new bushes (L/c for opening and fitting of rear wheel extra).	Per Bush	350.00			
94	L/c for front wheel bushes removing and new bushes fitting. (L/c for opening & fitting of roller wheel extra).	Per Bush	550.00			
95	L/c for changing & fitting of driving pinion. (L/c for opening & fitting of wheel and parts charges extra).	Per Job	150.00			
96	L/c for opening of front wheels and refitting after completion of job.	Per wheel	700.00			
97	L/c for welding & finishing of driving pinion teeth. (L/c for wheel opening & fitting extra).	Per Tooth	200.00			
98	L/c for opening and refitting of rear wheel from roller. (Cost of wheel extra).	Per wheel	450.00			
99	L/c for opening main drive axle & new fitting. (L/c for opening fitting of wheel & C/o oil seal & axle extra).	Per Job	55.00			
100	L/c for opening and fitting of main drive axle bearing (Cost of spares extra).	Per Job	150.00			
101	L/c for changing of new seal oil seal (L/c for opening & fitting of wheels extra).	Per Job	150.00			
102	L/c for redrilling of gear hole of rear wheel (L/c for opening & fitting of wheels extra).	Per Hole	225.00			
103	L/c for changing of ring gear of rear wheel. (L/c for opening & fitting of rear wheel extra).	Per Ring Gear	300.00			
104	L/c for providing front & rear wheel spacers. (L/c for opening & fitting of wheels and cost of washers extra).	Per wheel	310.00			
105	L/c for opening and fitting of axle. (L/c for opening and fitting of wheel extra).					

S.No	Item	Unit	Road Rollers	Tractors	With P-6 Engine	Mixal Plant
a	Front Wheel axle	Per Job	250.00			
b	Rear Wheel axle	Per Job	300.00			
106	L/c for changing of tierod end including wheel alignment.	Per Job		225		
107	L/c for opening and fitting of front spindle.	Per Job		400		
108	L/c for opening & fitting of wheel oil seal or bearing and	Per Job		350		
109	L/c for changing of front wheel oil seal (Cost of spares	Per Job		190		
110	L/c for changing of centre pin & bush (Cost of spares	Per Job		250		

### **BRAKE SYSTEM**

111	L/c for changing of brake leather and overhauling of brake system. (L/c for opening of wheel & cost of spares extra).	Per Job		600		
A	L/c for wheel cylinder overhauling	Per Job		130.00		
B	L/c for Master cylinder overhauling	Per Job		225.00		
112	L/c for wheel drum truning	Per Job		150.00		
113	L/c for brake adjusting	Per Job		150.00		
114	L/c for hand brake adjusting	Per Job		125.00		
115	L/c for hand brake overhauling	Per Job		150.00		

### **STEERING SYSTEM**

116	L/c for overhauling of complete Steering system by changing of old damaged parts & fitting of new parts. (Cost of spares extra).	Per Job	655.00	700.00		
117	L/c for changing of steering assembly. (Cost of Assembly extra).	Per Job	270.00	300.00		
118	L/c for changing of head piece casting. (Cost of parts extra).	Per Job	1100.00			
119	L/c for cutting & removing of pivot yoke pin and changing of new pin (Cost of parts extra).	Per Job	2000.00			
120	L/c for changing of steering U.J. Cross. (Cost of spares extra).	Per Job	150.00	150.00		
121	L/c for changing of steering bearing. (Cost of spares extra).	Per Job	125.00	125.00		
122	L/c for changing of steering bush (Cost of bush extra).	Per Job	110.00	110.00		
123	L/c for changing of oil seal & packing (Cost of spares extra).	Per Job		165.00		
124	L/c for welding and turning of steering pinion teeth (Only for A.J. and Angad roller).	Per Job	185.00			

### **BODY & OTHER MISC. WORKS**

125	L/c for opening & fitting of engine silencer manifold (Cost of welding extra).	Per Job	165.00	165.00	165.00	165.00
126	L/c for removing of old paint of roller/vehicle by scraping. Washing with soda castic with one coat of red oxide primer & two coat of synthetic enamel paint with Cost of material.	Per Job	5100.00	5100.00		2500.00

<b>S.No</b>	<b>Item</b>	<b>Unit</b>	<b>Road Rollers</b>	<b>Tractors</b>	<b>With P-6 Engine</b>	<b>Mixal Plant</b>
127	As above without removing old paint only, one coat of spray paint including Cost of material.	Per Job	2500.00	2500.00		1450.00
128	L/c for letter writing on machine as per direction of E/I including Cost of material & labour.	Per Job	375.00	375.00		170.00
129	L/c for making of driver seat & back with cost of rexin, Jute, Foam etc.	Per seat	1500.00	1500.00		
130	L/c for opning and fitting of diesel tank including welding and patching where required.	Per Job	250.00	250.00		
131	L/c for painting of tractor trolly & writing including cost of paint and painting on chasis back side of trolly with black Japan paint.	Per Job		3000.00		
132	Servicing of vehicle including washing greasing & oil changing (Cost of oil extra).	Per Job	350.00	350.00		
133	Cost of canvas hood & curtains new including fitting chargers.	Per Job		2700.00		
133A	L/c for making & fitting of roller curtain including cost of material.	Per Job	2500.00			
134	L/c for changing of silencer mufter/manifold (Cost of	Per Job		150.00		
135	L/c for speedometer or meter chain (Cost of spares extra).	Per Job	150.00	150.00		
136	L/c for changing Tyre & Tube					
A	Front wheel	Per Job		100.00		
B	Rear wheel	Per Job		150.00		
137	L/c opening, fitting and cleaning of fuel tank.	Per Job	250.00	250.00		
138	L/c for fitting of mixing blade of C.C. Mixer & Mixal plat	Per Job				150.00
139	L/c for welding & turning of drum shaft with cost of material.	Per Job				900.00
140	L/c for cleaning of mixing drum.	Per Job				700.00
141	L/c for changing and fitting of chain drive (Cost of spares extra).	Per Job				170.00
142	L/c for timing chain adujster changing & adjusting the same (Cost of parts extra).	Per Job				190.00
143	L/c for lifting complete yoke & drum and fitting the same.	Per Job				700.00
144	L/c for changing & fitting of clutch lining.	Per Job				225.00
145	L/c for fitting & reamering of wheel bush/bearing.	Per Job				400.00
146	L/c for changing of wire rope.	Per Job				175.00

<b>S.No</b>	<b>Item</b>	<b>Unit</b>	<b>Road Rollers</b>	<b>Tractors</b>	<b>With P-6 Engine</b>	<b>Mixal Plant</b>
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