

Mandatory Spares for M5 Check of Greaves Engine Model TBD4IV12- CPCB-1							
S. No.	Group	PART NO.	DISCRIPTION	QTY/ Engine	Unit	Unit Rate	Total
1	AIR INTAKE & EXHAUST SYSTEM	602007051015	CAP SCREW M10X115 DIN 912	24	Nos.	285.00	6840.00
2	AIR INTAKE & EXHAUST SYSTEM	623408613024	Hose Piece	2	Nos.	2250.00	4500.00
3	AIR INTAKE & EXHAUST SYSTEM	623408613014	SILICON HOSE 76X70MML	2	Nos.	1925.00	3850.00
4	AIR INTAKE & EXHAUST SYSTEM	105681021034	LOT GAUGE 40/130DEG 2445L	1	Nos.	1677.00	1677.00
5	AIR INTAKE & EXHAUST SYSTEM	602000101080	Hex Screw for Air Intake Manifold (M10X80 DIN931-8.8)	10	Nos.	104.00	1040.00
6	AIR INTAKE & EXHAUST SYSTEM	123408530354	Gasket Elbow to T/c	2	Nos.	450.00	900.00
7	AIR INTAKE & EXHAUST SYSTEM	604015300850	Hose Clip (SG 80-100/12SKZ)	4	Nos.	222.00	888.00
8	AIR INTAKE & EXHAUST SYSTEM	602000101060	Hex Screw for Air Intake Manifold (M10X60 DIN931-8.8)	26	Nos.	31.00	806.00
9	AIR INTAKE & EXHAUST SYSTEM	623408510014	GASKET CAF/9	2	Nos.	229.00	458.00
10	AIR INTAKE & EXHAUST SYSTEM	604015342101	Hose Clip (210 -230 mm size)	2	Nos.	201.00	402.00
11	AIR INTAKE & EXHAUST SYSTEM	106900000033	O-RING(SPRS)	1	Nos.	225.00	225.00
12	AIR INTAKE & EXHAUST SYSTEM	123408530334	Gasket for exhaust bend	2	Nos.	99.00	198.00
13	AIR INTAKE & EXHAUST SYSTEM	623408520064	OVAL GASKET	2	Nos.	68.00	136.00
14	AIR INTAKE & EXHAUST SYSTEM	623408510024	GASKET - CAF/G	2	Nos.	32.00	64.00
15	AIR INTAKE & EXHAUST SYSTEM	123408520044	GASKET TURBO OIL SUPPLY	2	Nos.	30.00	60.00
16	AIR INTAKE & EXHAUST SYSTEM	123408520054	Gasket	2	Nos.	19.00	38.00
17	AIR INTAKE & EXHAUST SYSTEM	604910121500	Gasket Exhaust Silencer	8	Nos.	147.00	1176.00
18	AIR INTAKE & EXHAUST SYSTEM	604910121250	Gasket Exhaust Silencer	12	Nos.	160.00	1920.00
19	COOLING SYSTEM	123207319217	Secondary Water PP Assy.	1	Nos.	19399.00	19399.00
20	COOLING SYSTEM	103460211016	Cogged belt AX 40	2	Nos.	488.00	976.00
21	COOLING SYSTEM	103460211321	V-BELT AX-52 COGGED	1	Nos.	581.00	581.00
22	COOLING SYSTEM	620708610104	HOSE BEND 40 DIA.	1	Nos.	423.00	423.00
23	COOLING SYSTEM	623208610254	HOSE 38 DIA.X 55L.	1	Nos.	135.00	135.00
24	COOLING SYSTEM	141100195038	RADIATOR PRE-MIX GREAVES KOOL 10 LIT	15	Nos.	3812.00	57180.00
25	CRANKCASE	623404320012	CAM BEARING BUSH	2	Nos.	1967.00	3934.00
26	CRANKCASE	623404320022	CAM BEARING BUSH	5	Nos.	3361.00	16805.00

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27	CRANKCASE	123404300017	Main bearing Standard	7	Nos.	6137.00	42959.00
28	CRANKCASE	604931314601	Liner O' Ring	24	Nos.	1092.00	26208.00
29	CRANKCASE	104961500008	Seal Dia (25 Length 16.5)	24	Nos.	494.00	11856.00
30	CRANKCASE	632413270014	STOPPER 10X11 ALUM PLUG	24	Nos.	19.00	456.00
31	FUEL SYSTEM	603200756209	BEARING SKF/6209 C3	1	Nos.	1793.00	1793.00
32	FUEL SYSTEM	103250100002	BEARING NU/209 FAG	1	Nos.	4364.00	4364.00
33	FUEL SYSTEM	603200746204	BALL BRGS 6204/2RS/C3	1	Nos.	964.00	964.00
34	CYLINDER HEAD	P23408550024	Cylinder Head Gasket	12	Nos.	1412.00	16944.00
35	CYLINDER HEAD	604931301001	O-RINT-VITON	24	Nos.	104.00	2496.00
36	CYLINDER HEAD	602403701220	VALVE SPRING OUTER D/234	24	Nos.	407.00	9768.00
37	CYLINDER HEAD	602402701130	SPRING VALVE INNER D/234	24	Nos.	138.00	3312.00
38	FUEL SYSTEM	100007760793	MAG.PICK UP- 5/8"UNF 50mm	2	Nos.	6410.00	12820.00
39	FUEL SYSTEM	105413100062	FUEL PRE-FLTR-KF 5.0LTR	1	Nos.	1021.00	1021.00
40	FUEL SYSTEM	632109390304	Flexible Pipe	1	Nos.	487.00	487.00
41	FUEL SYSTEM	1200240911	Fuel filter Element with out O' Ring	1	Nos.	298.00	298.00
42	FUEL SYSTEM	1200240912	Fuel Filter insert without O'Ring	1	Nos.	254.00	254.00
43	FUEL SYSTEM	602100540080	HEX. NUT M8 DIN 934	12	Nos.	19.00	228.00
44	FUEL SYSTEM	123407250001	PLUNGER BARREL ASSY D4V12	12	Nos.	5864.00	70368.00
45	FUEL SYSTEM	123407250002	Delivery valve D4V12	12	Nos.	4023.00	48276.00
46	FUEL SYSTEM	123409390084	PIPE FOR INJECTOR OVERFLOW TILL JUNCTION	1	Nos.	1016.00	1016.00
47	FUEL SYSTEM	123409390116	FUEL O/F PIPE ASSLY. D4IV12 RCF	2	Nos.	5882.00	11764.00
48	FUEL SYSTEM	123203510264	STUD-M10	12	Nos.	286.00	3432.00
49	LUB OIL SYSTEM	605412970039	LUB OIL FILTER 234	1	Nos.	5718.00	5718.00
50	LUB OIL SYSTEM	106908740006	PAPER INSERT-OIL CENTRFUG	1	Nos.	124.00	124.00
51	LUB OIL SYSTEM	123208520094	Gasket	2	Nos.	43.00	86.00
52	LUB OIL SYSTEM	123208530234	Gasket LO Centrifuge	1	Nos.	79.00	79.00
53	MISCELENEOUS	105413100154	Air Filter (Inner Element)	1	Nos.	24781.00	24781.00

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54	MISCELENEOUS	123400190157	Set of 'O' rings	1	Nos.	23034.00	23034.00
56	MISCELENEOUS	123400191378	Set of Flexible Pipes	1	Nos.	17108.00	17108.00
57	MISCELENEOUS	123490320342	VULKAN ELEMENT 2X3016A003.	1	Nos.	40789.00	40789.00
58	MISCELENEOUS	123400190057	Set of Hoses	1	Nos.	15691.00	15691.00
59	MISCELENEOUS	123400190748	Set of Gasket	1	Nos.	13284.00	13284.00
60	MISCELENEOUS	105413100155	Air Filter (Outer Element)	1	Nos.	11292.00	11292.00
61	MISCELENEOUS	123200190388	Set of Hose Clips	1	Nos.	8385.00	8385.00
62	MISCELENEOUS	105685000656	Water Temp. Guage - 1500 mm capillary	1	Nos.	3068.00	3068.00
63	MISCELENEOUS	105612412501	Lub oil Pressure Guage	1	Nos.	1472.00	1472.00
64	MISCELENEOUS	100007761195	LOP SENSORCUMSW= 0- 10 BAR = VDO1.5	1	Nos.	7539.00	7539.00
65	MISCELENEOUS	123400191268	Set of Copper Washers	1	Nos.	1294.00	1294.00
66	MISCELENEOUS	123200198744	Lube Oil CI4 50 ltr	1	Nos.	27634.00	27634.00
67	MISCELENEOUS	123200198734	Lube Oil CI4 20 ltr	1	Nos.	11080.00	11080.00
68	MISCELENEOUS	604931061582	O RING SILICON 158 X 2.3	12	Nos.	320.00	3840.00
69	MISCELENEOUS	105652090157	DRPM+HC=85DIA =118TEETH=TWI NTECH	1	Nos.	11473.00	11473.00
70	PISTON & CONNECTING ROD ASSEMBLY	123404306007	Connecting rod bearing Std (SET)	12	Nos.	3703.00	44436.00
71	PISTON & CONNECTING ROD ASSEMBLY	623404310014	BUSH CONN ROD S/END	12	Nos.	1978.00	23736.00
72	PISTON & CONNECTING ROD ASSEMBLY	123203530014	CONN ROD BIG END BOLT	24	Nos.	393.00	9432.00
73	TAPPET COVER	P23408530084	Tappet Cover Gasket	12	Nos.	242.00	2904.00
74	VALVE ACTUATION ASSEMBLY	602160100100	SPRING WASHER M-10	36	Nos.	18.00	648.00
75	VALVE ACTUATION ASSEMBLY	602100540100	HEX. NUT M10 DIN 934M-10	24	Nos.	23.00	552.00
77	AIR INTAKE & EXHAUST SYSTEM	105761010002	Restriction Indicator	1	Nos.	1916.00	1916.00
79	CAM SHAFT ASSEMBLY	123403400044	Thrust ring	2	Nos.	202.00	404.00
80	CAM SHAFT ASSEMBLY	623404330014	Thrust Ring	2	Nos.	1879.00	3758.00
81	COOLING SYSTEM	123407310266	WATER PUMP ASSEMBLY D4/D4-I	1	Nos.	34808.00	34808.00
82	CRANKCASE	623203300224	BUSH V12 CR. CASE	1	Nos.	79.00	79.00

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83	CRANKCASE	P23504650015	NOZZLE PISTON COOLING	12	Nos.	612.00	7344.00
84	CRANKCASE	123501320044	LINER FOR D4IV12 WITH MODIFIED HONING	12	Nos.	7486.00	89832.00
85	CRANKCASE	104961500009	Seal Dia (17.5 Length 15.5)	24	Nos.	646.00	15504.00
86	CRANKCASE	620609760014	Brass cap	30	Nos.	171.00	5130.00
87	CRANKCASE	602150611851	DISC (D/234)	28	Nos.	122.00	3416.00
88	CRANKCASE	623403400024	RING HALF BRONZE	2	Nos.	1226.00	2452.00
89	CRANKCASE	620609760024	BRASS CAP	2	Nos.	135.00	270.00
90	CRANKCASE	632413270024	PLUG ALUM 14MMX15MM L	4	Nos.	21.00	84.00
91	CRANKSHAFT	623403400044	CRANK-SHAFT RING	1	Nos.	7220.00	7220.00
93	CYLINDER HEAD	123403450032	Valve Seat Insert (Exhaust)	12	Nos.	2912.00	34944.00
94	CYLINDER HEAD	P2330460 0014	VALVE CONE OUTLET KV 2996(EXH VALVE)	12	Nos.	2074.00	24888.00
95	CYLINDER HEAD	623404600064	INLET VALVE KV2995	12	Nos.	1159.00	13908.00
96	CYLINDER HEAD	623403329014	VALVE GUIDE - D3/D4	24	Nos.	445.00	10680.00
97	CYLINDER HEAD	623403300044	Injector Sleeve	12	Nos.	886.00	10632.00
98	CYLINDER HEAD	623403420014	Spring Cap	24	Nos.	193.00	4632.00
99	CYLINDER HEAD	123403450042	Valve Seat Insert (Inlet)	12	Nos.	329.00	3948.00
100	CYLINDER HEAD	623403600014	Grooved Nut	12	Nos.	130.00	1560.00
101	CYLINDER HEAD	623404620014	VALVE COLLET	96	Nos.	16.00	1536.00
102	CYLINDER HEAD	623403400174	RING	12	Nos.	26.00	312.00
103	CYLINDER HEAD	EM07071 00002	SLEEVE CYL HEAD EMISSION	12	Nos.	643.00	7716.00
104	FLY WHEEL HOUSING	604960651332	OIL SEAL (FLYWHEEL SIDE)	1	Nos.	2712.00	2712.00
105	FRONT WALL COVER & Fuel Pump Drive Assembly)	604960650951	OIL SEAL-95-110- 12V	1	Nos.	1498.00	1498.00
106	FUEL SYSTEM	623409050067	234V12 FUEL INJ.PIPE SET	1	Nos.	11037.00	11037.00
107	FUEL SYSTEM	604043200008	BANJO SCREW M14X1.5X31LG.	15	Nos.	91.00	1365.00
108	FUEL SYSTEM	623408550044	Sealing ring for Injector	12	Nos.	51.00	612.00
109	FUEL SYSTEM	123409390916	INJECTOR RCF with BRAZED ADAPTOR	12	Nos.	12216.00	146592.00
110	FUEL SYSTEM	123407250004	Feed pump D4V12 FIP	1	Nos.	10906.00	10906.00

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111	FUEL SYSTEM	123403600024	HEX NUT M10	12	Nos.	42.00	504.00
112	MISCELENEOUS	105685090028	WATER TEMP SWITCH 96 DEG.	1	Nos.	3791.00	3791.00
113	MISCELENEOUS	105782010018	LOP SWITCH 2.5/3.0KG/CM2	1	Nos.	3040.00	3040.00
114	PISTON & CONNECTING ROD ASSEMBLY	E2340160 0036	E-PISTON ASSY W/O/R TBD4-I	12	Nos.	19602.00	235224.00
115	PISTON & CONNECTING ROD ASSEMBLY	123400191357	RING SET PISTON D4I 132DIA	12	Nos.	6324.00	75888.00
116	VALVE ACTUATION ASSEMBLY	123409420315	PUSH ROD TUBE(MODF)195 MM	24	Nos.	587.00	14088.00
117	VALVE ACTUATION ASSEMBLY	623203210034	PUSH ROD	24	Nos.	404.00	9696.00
118	VALVE ACTUATION ASSEMBLY	623203580024	ADJ.SCREW=M10 X1.5X39 LG.	24	Nos.	202.00	4848.00
119	VALVE ACTUATION ASSEMBLY	623403250014	TAPPET	24	Nos.	568.00	13632.00
120	AIR INTAKE & EXHAUST SYSTEM	105292000073	Turbocharger	2	Nos.	121607.00	243214.00
121	LUB OIL SYSTEM	123407300076	LUB. OIL PUMP MAIN	1	Nos.	78872.00	78872.00
Total of Annexure D (inclusive all taxes & Charges) for one (01) engine							1849666.00
Total of Annexure D (inclusive all taxes & Charges) for 10 engines							18496660.00