

Annexure - 'A'								
Mandatory Spares for for M4 check of Greaves Engine Model TBDI4V12- CPCB-1 Engine								
S. No.	Group	Part No.	Description	QTY/ Engine	Unit	GST %	Unit Rate	Total
1	AIR INTAKE & EXHAUST SYSTEM	602007051015	CAP SCREW M10X115 DIN 912	24	Nos.	18%	285.00	6840.00
2	AIR INTAKE & EXHAUST SYSTEM	623408613024	Hose Piece	2	Nos.	18%	2,250.00	4500.00
3	AIR INTAKE & EXHAUST SYSTEM	623408613014	SILICON HOSE 76X70MML	2	Nos.	18%	1,925.00	3850.00
4	AIR INTAKE & EXHAUST SYSTEM	602000101080	Hex Screw for Air Intake Manifold (M10X80 DIN931-8.8)	10	Nos.	18%	104.00	1040.00
5	AIR INTAKE & EXHAUST SYSTEM	123408530354	Gasket Elbow to T/c	2	Nos.	18%	450.00	900.00
6	AIR INTAKE & EXHAUST SYSTEM	604015300850	Hose Clip (SG 80-100/12SKZ)	4	Nos.	18%	222.00	888.00
7	AIR INTAKE & EXHAUST SYSTEM	602000101060	Hex Screw for Air Intake Manifold (M10X60 DIN931-8.8)	26	Nos.	18%	31.00	806.00
8	AIR INTAKE & EXHAUST SYSTEM	623408510014	GASKET CAF/9	2	Nos.	18%	229.00	458.00
9	AIR INTAKE & EXHAUST SYSTEM	604015342101	Hose Clip (210 - 230 mm size)	2	Nos.	18%	201.00	402.00
10	AIR INTAKE & EXHAUST SYSTEM	106900000033	O-RING(SPRS)	1	Nos.	18%	225.00	225.00
11	AIR INTAKE & EXHAUST SYSTEM	123408530334	Gasket for exhaust bend	2	Nos.	18%	99.00	198.00
12	AIR INTAKE & EXHAUST SYSTEM	623408520064	OVAL GASKET	2	Nos.	18%	68.00	136.00
13	AIR INTAKE & EXHAUST SYSTEM	623408510024	GASKET - CAF/G	2	Nos.	18%	32.00	64.00
14	AIR INTAKE & EXHAUST SYSTEM	123408520044	GASKET TURBO OIL SUPPLY	2	Nos.	18%	30.00	60.00
15	AIR INTAKE & EXHAUST SYSTEM	123408520054	Gasket	2	Nos.	18%	19.00	38.00
16	COOLING SYSTEM	103460211016	Cogged belt AX 40	2	Nos.	18%	488.00	976.00
17	COOLING SYSTEM	103460211321	V-BELT AX-52 COGGED	1	Nos.	18%	581.00	581.00
18	COOLING SYSTEM	620708610104	HOSE BEND 40 DIA.	1	Nos.	18%	423.00	423.00
19	COOLING SYSTEM	623208610254	HOSE 38 DIA.X 55L.	1	Nos.	18%	135.00	135.00
20	COOLING SYSTEM	141100195038	RADIATOR PRE-MIX GREAVES KOOL 10 LIT	15	Nos.	18%	3,812.00	57180.00
21	CRANKCASE	104961500008	Seal Dia (25 Length 16.5)	24	Nos.	18%	494.00	11856.00
22	CRANKCASE	632413270014	STOPPER 10X11 ALUM PLUG	12	Nos.	18%	19.00	228.00
23	CYLINDER HEAD	P23408550024	Cylinder Head Gasket	12	Nos.	18%	1,413.00	16956.00
24	CYLINDER HEAD	604931301001	O-RINT-VITON	24	Nos.	18%	104.00	2496.00
25	CYLINDER HEAD	602403701220	VALVE SPRING OUTER D/234	24	Nos.	18%	407.00	9768.00
26	CYLINDER HEAD	602402701130	SPRING VALVE INNER D/234	24	Nos.	18%	138.00	3312.00
27	FUEL SYSTEM	100007760793	MAG.PICK UP- 5/8" UNF 50mm	2	Nos.	18%	6,410.00	12820.00

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28	FUEL SYSTEM	105413100062	FUEL PRE-FLTR-KF 5.0LTR	1	Nos.	18%	1,021.00	1021.00
29	FUEL SYSTEM	632109390304	Flexible Pipe	1	Nos.	18%	487.00	487.00
30	FUEL SYSTEM	1200240911	Fuel filter Element with out O' Ring	1	Nos.	18%	298.00	298.00
31	FUEL SYSTEM	1200240912	Fuel Filter insert without O'Ring	1	Nos.	18%	254.00	254.00
32	FUEL SYSTEM	602100540080	HEX. NUT M8 DIN 934	12	Nos.	18%	19.00	228.00
33	FUEL SYSTEM	123409390084	PIPE FOR INJECTOR OVERFLOW TILL JUNCTION	1	Nos.	18%	1,016.00	1016.00
34	FUEL SYSTEM	123409390116	FUEL O/F PIPE ASSLY.D4IV12 RCF	2	Nos.	18%	5,882.00	11764.00
35	FUEL SYSTEM	123203510264	STUD-M10	12	Nos.	18%	286.00	3432.00
36	LUB OIL SYSTEM	605412970039	LUB OIL FILTER 234	1	Nos.	18%	5,718.00	5718.00
37	LUB OIL SYSTEM	106908740006	PAPER INSERT-OIL CENTRFUG	1	Nos.	18%	124.00	124.00
38	LUB OIL SYSTEM	123208520094	Gasket	2	Nos.	18%	43.00	86.00
39	LUB OIL SYSTEM	123208530234	Gasket LO Centrifuge	1	Nos.	18%	79.00	79.00
40	MISCELENEOUS	105413100154	Air Filter (Inner Element)	1	Nos.	18%	24,781.00	24781.00
41	MISCELENEOUS	105413100155	Air Filter (Outer Element)	1	Nos.	18%	11,292.00	11292.00
42	MISCELENEOUS	123400190157	Set of 'O' rings	1	Nos.	18%	23,034.00	23034.00
43	MISCELENEOUS	123400191378	Set of Flexible Pipes	1	Nos.	18%	17,108.00	17108.00
44	MISCELENEOUS	123400190057	Set of Hoses	1	Nos.	18%	15,691.00	15691.00
45	MISCELENEOUS	123400190748	Set of Gasket	1	Nos.	18%	13,284.00	13284.00
46	MISCELENEOUS	123200190388	Set of Hose Clips	1	Nos.	18%	8,385.00	8385.00
47	MISCELENEOUS	123400191268	Set of Copper Washers	1	Nos.	18%	1,294.00	1294.00
48	MISCELENEOUS	105685000656	Water Temp. Guage -1500 mm capillary	1	Nos.	18%	3,068.00	3068.00
49	MISCELENEOUS	105612412501	Lub oil Pressure Guage	1	Nos.	18%	1,472.00	1472.00
50	MISCELENEOUS	100007761195	LOP SENSORCUMSW=0- 10BAR= VDO1.5	1	Nos.	18%	7,539.00	7539.00
51	MISCELENEOUS	123200198744	Lube Oil CI4 50 ltr	1	Nos.	18%	27,634.00	27634.00
52	MISCELENEOUS	123200198734	Lube Oil CI4 20 ltr	1	Nos.	18%	11,080.00	11080.00
53	TAPPET COVER	P23408530084	Tappet Cover Gasket	12	Nos.	18%	242.00	2904.00
54	MISCELENEOUS	123490320342	VULKAN ELEMENT 2X3016A003.	1	Nos.	18%	40,789.00	40789.00
55	VALVE ACTUATION	602160100100	SPRING WASHER M-10	36	Nos.	18%	18.00	648.00
56	VALVE ACTUATION ASSEMBLY	602100540100	HEX. NUT M10 DIN 934M-10	24	Nos.	18%	23.00	552.00

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58	AIR INTAKE & EXHAUST SYSTEM	105761010002	Restriction Indicator	1	Nos.	18%	1,916.00	1916.00
59	CRANKCASE	623203300224	BUSH V12 CR. CASE	1	Nos.	18%	79.00	79.00
60	CRANKCASE	104961500009	Seal Dia (17.5 Length 15.5)	24	Nos.	18%	646.00	15504.00
61	CRANKCASE	602150611851	DISC (D/234)	28	Nos.	18%	122.00	3416.00
62	CRANKCASE	623403400024	RING HALF BRONZE	2	Nos.	18%	1,226.00	2452.00
63	CRANKCASE	620609760014	CAP BRASS	6	Nos.	18%	171.00	1026.00
64	CRANKCASE	620609760024	BRASS CAP	2	Nos.	18%	135.00	270.00
65	CRANKCASE	632413270024	PLUG ALUM14MMX15MM L	4	Nos.	18%	21.00	84.00
66	CYLINDER HEAD	123403450032	Valve Seat Insert (Exhaust)	12	Nos.	18%	2,912.00	34944.00
67	CYLINDER HEAD	P23304600014	VALVE CONE OUTLET KV 2996 (EXH VALVE)	12	Nos.	18%	2,073.00	24876.00
68	CYLINDER HEAD	623404600064	INLET VALVE KV 2995	12	Nos.	18%	1,159.00	13908.00
69	CYLINDER HEAD	623403329014	VALVE GUIDE - D3/D4	24	Nos.	18%	445.00	10680.00
70	CYLINDER HEAD	623403300044	Injector Sleeve	12	Nos.	18%	886.00	10632.00
71	CYLINDER HEAD	623403420014	Spring Cap	24	Nos.	18%	193.00	4632.00
72	CYLINDER HEAD	123403450042	Valve Seat Insert (Inlet)	12	Nos.	18%	329.00	3948.00
73	CYLINDER HEAD	623404620014	VALVE COLLET	96	Nos.	18%	16.00	1536.00
74	CYLINDER HEAD	623403400174	Ring	12	Nos.	18%	26.00	312.00
75	CYLINDER HEAD	EM0707100002	SLEEVE CYL HEAD EMMISSION	12	Nos.	18%	643.00	7716.00
76	FUEL SYSTEM	604043200008	BANJO SCREW M14X1.5X31LG.	15	Nos.	18%	91.00	1365.00
77	FUEL SYSTEM	623408550044	Sealing ring for Injector	12	Nos.	18%	51.00	612.00
78	FUEL SYSTEM	123407250004	Feed pump D4V12 FIP	1	Nos.	18%	10,906.00	10906.00
79	FUEL SYSTEM	123403600024	HEX NUT M10	12	Nos.	18%	42.00	504.00
80	FUEL SYSTEM	123409390916	INJECTOR RCF with BRAZED ADAPTOR	12	Nos.	18%	12,216.00	146592.00
81	MISCELENEOUS	105685090028	WATER TEMP SWITCH 96 DEG.	1	Nos.	18%	3,791.00	3791.00
82	MISCELENEOUS	105782010018	LOP SWITCH 2.5/3.0KG/CM2	1	Nos.	18%	3,040.00	3040.00
83	VALVE ACTUATION ASSEMBLY	623203210034	PUSH ROD	24	Nos.	18%	404.00	9696.00
84	VALVE ACTUATION ASSEMBLY	623203580024	ADJ.SCREW=M10X1.5X39 LG.	24	Nos.	18%	202.00	4848.00
85	VALVE ACTUATION ASSEMBLY	123409420315	PUSH ROD TUBE (MODF) 195MM	24	Nos.	18%	587.00	14088.00
86	AIR INTAKE & EXHAUST SYSTEM	105681021034	LOT GAUGE 40/130DEG 2445L	1	Nos.	18%	1,677.00	1677.00

S. No.	Group	Part No.	Description	QTY/ Engine	Unit	GST %	Unit Rate	Total
87	AIR INTAKE & EXHAUST SYSTEM	105292000073	Turbocharger	2	Nos.	18%	1,21,607.00	243214.00
88	COOLING SYSTEM	123207319217	Secondary Water PP Assy.	1	Nos.	18%	19,399.00	19399.00
89	CRANKCASE	604931314601	Liner O' Ring	24	Nos.	18%	1,092.00	26208.00
90	FUEL SYSTEM	123407250001	PLUNGER BARREL ASSY D4V12	12	Nos.	18%	5,864.00	70368.00
91	FUEL SYSTEM	123407250002	Delivery valve D4V12	12	Nos.	18%	4,023.00	48276.00
92	MISCELENEOUS	100007761211	EMS936- ENGINE CONTROLLER	1	Nos.	18%	21,510.00	21510.00
93	AIR INTAKE & EXHAUST SYSTEM	123299330646	BELLOW EXH 125NW X220L ASSLY	2	Nos.	18%	14,419.00	28838.00
94	COOLING SYSTEM	123407310266	WATER PUMP ASSEMBLY D4/D4-I	1	Nos.	18%	34,808.00	34808.00
<b>Total of Annexure B ( inclusive of all taxes and charges) for one (01) engine</b>								<b>1199869.00</b>
otal of Annexure B ( inclusive of all taxes and charges) for 04 engines								4799476.00