

Inventory Management Of Fast Moving Spares Parts Of Veh/Eqpt/ Plants : A Practical Approach For Field Workshops & Base Workshops Of Border Roads Organisation

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Abstract

The **Border Roads Organisation (BRO)** develops and maintains roads networks in India's border areas and friendly neighboring countries. BRO operates in 19 states and three UTs (Andaman and Nicobar Islands, J&K and Laddakh), and neighboring countries such as Afghanistan, Bhutan, Myanmar, and Sri Lanka. BRO operates and maintains over 32,885 kilometers of roads and about 12,200 meters of permanent bridges in the country. The BRO operates through 18 Projects namely : Arunank, Beacon, Brahman, Chetak, Deepak, Dantak, Himank, Hirak, Pushpak, Sampark, Setuk, Sewak, Shivalik, Swastik, Udayak, Vartak, Vijayak and Rohtang Tunnel. BRO is instrumental in significantly upgrading and building new Indo-China Border Roads. This is only organization in India, working with own expertise and machineries. All development activities are being done by various modern and advanced Vehicle/ Eqpt / Plants. Their upkeep, preventive maintenance and repair is a challenging job for 37 Field workshops and 2 Base workshops. Hence a dedicated and practical approach is needed to overcome these works to avoid delay in repair. It also ensures optimal availability of equipment for actual job on ground. Therefore, this study is done after a detailed analysis and taking feedback from staff working on ground. It is decided to firstly summarize the need of all kinds of filters to be used for the Veh /Eqpt /Plants and their commonality with the existing fleet of Veh /Eqpt /Plants . It enables to reduce cost of repair and maintenance of fleet of BRO and to provide all types of filters in right quantity, at right time and of right quality as per need on ground.

Keywords : *Vehicle/Eqpt/Plants, Inventory control, commonality, Field Workshop, Base workshop and Preventive repair & maintenance etc.*

1. Introduction:

Border Roads Organisation is an infrastructure development organisation working under the ministry of defence. The capital cost of Vehicle/Equipment/Plants are about Rs 4500 Crs. There are a fleet of about 480 types of various vehicles and equipments/plants and total population is about 17000. Inventory management is a critical function for Border Roads Organisation. Without effective and efficient inventory control methods, the supply chain suffers. But choosing the right method for practical inventory control and developing effective methods to ensure that processes are followed. To improve the accuracy of your inventory control methods and collecting accurate data to understand the needs on ground. A dedicated approach for Field Workshops and Base Workshops level is worked out, which covers almost 90% of population.

2. Background:

It was a need felt to make an easy and efficient inventory management of spares parts. Accordingly, a practical approach to overcome day to day crisis on ground have been analysed and summarised below. For this, various study of existing procedures, army workshops, discussion with other officers and staff working on ground have been done since last one year and then a final shape of this article have been made. This needs turner shaping w.r.t time in the organisation. The details of fleets of veh / Eqpt / Plant held in BRO is depicted in Table no. 1

TABLE No. 01 : LIST OF VEH/EQPT/PLANTs HELD ON MAINTENACE LOAD OF FIELD WORKSHOPS & BASE WORKSHOPS : BRO

| Sr No. | Model of Veh/Eqpt/Plants | Make & Model of Engine | Name of OEM |
|--------|---|-----------------------------|-----------------------------------|
| 1 | Dragline 101 ME | Cummins 6CTA 8.3C | M/s Titagarh Wagons Ltd |
| 2 | Dozer BD50 A15 | BEML BS-6D105-I | M/s BEML Ltd |
| 3 | Dozer D-155 A-1 | Cummins 6 Cyl Diesel Engine | M/s BEML Ltd |
| 4 | Dozer D80 A12 | BEML BS-6D125-I | M/s BEML Ltd |
| 5 | Hyd Exc BE -220 | BEML BS-6D105-I | M/s BEML Ltd |
| 6 | Hyd Exc BE- 75 | Kirloskar 4R-1040 | M/s BEML Ltd |
| 7 | Motor Grader BG-605 | BEML BS-6D125-I | M/s BEML Ltd |
| 8 | JCB Exc cum Loader 3DX Super/4DX | JCB 444 TC -68 | M/s JCB India Ltd |
| 9 | JCB Exc 3DX | Kirloskar RB-44 | M/s JCB India Ltd |
| 10 | JCB Hyd Exc JS- 80 | Kirloskar 4R 1040 | M/s JCB India Ltd |
| 11 | JCB Hyd Exc JS 200 | Tata Cummins 6BT | M/s JCB India Ltd |
| 12 | JCB Wheel Loader- 430Z | ALU 411 TC2/1 | M/s JCB India Ltd |
| 13 | Telcon Hitachi Hyd Exc EX70 | Tata 497 NA | M/s Telcon Ltd |
| 14 | Telcon Hitachi Exc cum Loader JD315 SE(T) | Tata 497 TC-91 | M/s Telcon Ltd |
| 15 | Telcon Hitachi Exc cum Loader JD 315V | Tata 497 TCIC BS-III | M/s Telcon Ltd |
| 16 | Telcon Hitachi Hyd Exc EX200 | Tata Cummins 6BT | M/s Telcon Ltd |
| 17 | Telcon W/Loader Model-3036 | Tata 697 TC | M/s Telcon Ltd |
| 18 | Escorts Soil Compactor Model-5250 | Kirloskar HA-694 | M/s Escort Construction Eqpt Ltd |
| 19 | L&T Soil Compactor Model 1107D | Kirloskar HA 694 | M/s L&T Case India Ltd |
| 20 | Bomang Greaves Soil Compactor | Kirloskar HA 694 | M/s Bomang Greaves India Ltd |
| 21 | L&T Mini TVRR Model- 450 | M&M 4cyl Eng | M/s L&T Case India Ltd |
| 22 | L&T Vibrator RR Model-752 | Kirloskar HA 694 | M/s L&T Case India Ltd |
| 23 | Ingersol Rand Vib Road Roller | Kirloskar HA 694 | M/s Ingersol Rand Ltd |
| 24 | Escort TVRR HD- 85 | Kirloskar HA-694 | M/s Escort Construction Eqpt Ltd. |
| 25 | Road Roller Jessop | S-4 | M/s Jessop India Ltd |
| 26 | Road Roller BM | S-4 | M/s Britannia Eng Co., Ltd. |
| 27 | Road Roller Speed craft | S-4 | M/s Speed Craft India Ltd |
| 28 | Road Roller Wilson | S-4 | M/s Wilson India Ltd |
| 29 | Paver Finisher AP550DX | Kirloskar 6R1080 | M/s Apollo India Ltd |
| 30 | Paver Finisher RM-6 Apollo | Kirloskar 4R-1040 | M/s Apollo India Ltd |
| 31 | Farm Tractor Holland 3630 | IVECO8000 Series 3cyl | M/s New Holland Ltd |
| 32 | Farm Tractor 6065 Escort | Escort 4CYL S2216 W/Cooled | M/s Escort Construction Eqpt Ltd. |
| 33 | Air Comp 140 CFM | M&M 1189 | M/s Cps/Atlas Copco Ltd |
| 34 | Air Comp Cps 260 CFM | P-6 -354 | M/s Cps/Atlas Copco Ltd |
| 35 | Air Comp Cps 260 CFM | Hino ALU W 04D | M/s Cps/Atlas Copco Ltd |
| 36 | Air Comp 300 To 372 CFM | Hino ALU W 04D | M/s Cps/Atlas Copco Ltd |
| 37 | Gen Set 5.5 KVA, Greaves | Greaves Eng MK-3 | M/s Greaves India Ltd |
| 38 | Gen Set 5.5 KVA, Greaves | Greaves G600W | M/s Greaves India Ltd |
| 39 | Gen Set 11.25 KVA Kirloskar | Kirloskar HA 394 | M/s Kirloskar India Ltd |
| 40 | Gen Set 11.25 KVA | Ruston 3 YWA | Ruston & Hornsby (India) Ltd. |
| 41 | Gen Set 11.25 KVA | HA 294 Eng | M/s Kirloskar India Ltd |
| 42 | Gen Set 11.25 KVA | Kirloskar EW24 Eng | M/s Kirloskar India Ltd |
| 43 | Gen Set 11.25 KVA | Greaves 3YWA MK-V | M/s Greaves India Ltd |
| 44 | Gen Set 11.25 KVA Atul | 4 Cyl W/Cooled Atul | M/s Atul Gen Set India Ltd |
| 45 | Gen Set 11.25 KVA Kirloskar | Kirloskar HA 494 Eng | M/s Kirloskar India td |

| | | | |
|----|-------------------------------------|------------------------------|----------------------------------|
| 46 | Gen Set 15 KVA Elmech Kirloskar | Kirlosker HA 294 Eng | M/s Elmech Kirloskar India Ltd |
| 47 | Gen Set 30 KVA | Greaves 3YAK MK6 | M/s Ph Greaves Ltd |
| 48 | Gen Set 30 KVA Kirloskar Green | Kirlosker HA 494 Eng | M/s Kirloskar India Ltd |
| 49 | Gen Set 30 KVA Tata Rishabh Green | Tata 497 SPTC 78 | M/s Tata Rishabh India Ltd |
| 50 | Gen Set 62.5 KVA Kirloskar Green | Kirloskar 4R1040T eng | M/s Kirloskar India Ltd |
| 51 | Gen Set 160 KVA Greaves | Greavs TBD-232 V-8 Eng | M/s Greaves India Ltd |
| 52 | Escort Crane F14 | Kirloskar 4R-1040 | M/s Escort Construction Eqpt Ltd |
| 53 | Car Ambassador Nova | MPFI 1800 BS-II ISZ | M/s Hindustan Motors Ltd. |
| 54 | Maruti Ciaz Car | K14BVVT 1373CC 4 Cyl | M/s Maruti Udyog Ltd. |
| 55 | Tata 410 Ambulance | Tata 497 SPTC BS-III | M/s Tata Motors Ltd |
| 56 | Maruti Gypsy 410 | MG 410 | M/s Maruti Udyog Ltd. |
| 57 | Maruti Gypsy King | M/King 1.3 Ltr MPFI | M/s Maruti Udyog Ltd. |
| 58 | Tata Safari 2.2VTT | 2.2VTT, Dicor BS-IV | M/s Tata Motors Ltd |
| 59 | Mahindra Bolero DI4WD | Mahindra 2523CC,TC | M/s M&M Ltd. |
| 60 | Mahindra Scorpio | M&M 2.2 Hawk BS-IV | M/s M&M Ltd. |
| 61 | Mahindra Bolero Camper | Mahindra Bolero Camper BS-IV | M/s M&M Ltd. |
| 62 | Swaraj Mazda Bus | SLTC T-3500 | M/s Swaraj Mazda Ltd. |
| 63 | Tata 709 Bus | Tata 497 SPTC BS-II | M/s Tata Motors Ltd |
| 64 | Tata 712 Bus | Tata 497 SPTC BS-III | M/s Tata Motors Ltd |
| 65 | Tata 1510 Bus 52 Seater | Tata 697 TCIC 56 | M/s Tata Motors Ltd |
| 66 | Tata Mobile – 207 | 483 DL TC-50 BS-II | M/s Tata Motors Ltd |
| 67 | Tata Mobile -207 | 483 DL TC-55 BS-III | M/s Tata Motors Ltd |
| 68 | Tata Xenon BS-IV | Dicor3L (4SPCR) | M/s Tata Motors Ltd |
| 69 | Tata 407 (4x2) | Tata 497 SP 21 | M/s Tata Motors Ltd |
| 70 | Tata 407 TC | Tata 497 SPTC | M/s Tata Motors Ltd |
| 71 | Tata 407 TC IC | Tata 497 TC IC BS-III | M/s Tata Motors Ltd |
| 72 | Tata Water Truck 1613 SE (4x2) | Tata 697 TC BS-II | M/s Tata Motors Ltd |
| 73 | Tata Water Truck 1615 SE (4x2) | Tata 697 TC BS-III | M/s Tata Motors Ltd |
| 74 | Tata Water Truck 1613 SE (4x2) | 6BT Cummins II | M/s Tata Motors Ltd |
| 75 | Tata L/C 1613 SE (4x2) | 697 TCIC BS-II | M/s Tata Motors Ltd |
| 76 | Tata L/C 1613 SE (4x2) | 6BT Cummins BS-II | M/s Tata Motors Ltd |
| 77 | Tata L/C 1212 TC/42 (4x4) | 6BT Cummins BS-III | M/s Tata Motors Ltd |
| 78 | Tata TLR 2515 LPT (6x2) | 6BT Cummins BS-II | M/s Tata Motors Ltd |
| 79 | Tata REC Veh 1212 TC | 6BT Cummins | M/s Tata Motors Ltd |
| 80 | Tata Recovery Veh 1210 | 697 D21/24 | M/s Tata Motors Ltd |
| 81 | Tata Troops carrier | Tata 697 TC IC BS-III | M/s Tata Motors Ltd |
| 82 | Tata Tpr SK 1613 | Tata 697 TC IC BS-II | M/s Tata Motors Ltd |
| 83 | Tata Tpr 1212 SAK TC (4x4) | 6BT Cummins BS-II | M/s Tata Motors Ltd |
| 84 | Tata Tpr 1212 SAK TC (4x4) | 6BT Cummins BS-III | M/s Tata Motors Ltd |
| 85 | Ashok Leyland L/Carrier 1616 | HA6ETI3KN BS-III | M/s Ashok Leyland Ltd. |
| 86 | Ashok Leyland Dumper 2516/2 | AL-HA6DT12N | M/s Ashok Leyland Ltd. |
| 87 | Ashok Leyland Tipper 1616 | HA6ETI3KN BS-III | M/s Ashok Leyland Ltd. |
| 88 | Ashok Leyland Recovery Stallion | HA6ETI3KN BS-III | M/s Ashok Leyland Ltd. |
| 89 | Mahindra Toro Dumper | M Power 6.12 TCA | M/s M&M Ltd. |
| 90 | AMW Dumper 2523 | Cummins 6BT | M/s AMW Ltd . |
| 91 | Tata 3 Axle Dozer Transporter | Cummins 6BT | M/s Tata Motors Ltd. |
| 92 | AMW 3 Axle Dozer Transporter 2518 | Cummins 6BT | M/s AMW Ltd. |
| 93 | Tata 3 Axle Dozer Transporter BS-IV | Cummins 6BT BS IV | M/s Tata Motors Ltd. |

3. Various existing procedures: It is necessary to choose the right Inventory Control Method, a complete analysis of all existing tools of Inventory management is described as under.

- a. The Min-Max inventory control method helps you define how much inventory you should maintain for specific items.
- b. The ABC method is one of the most commonly used inventory control methods in some industries.
- c. The Just In Time inventory control method is considered a risky practice, but it does reduce the volume of inventory a business keeps on-hand, which can reduce overhead costs.
- d. Multi-period inventory methods have two main variations: fixed order quantity and fixed time period ordering.
- e. While there is not necessarily a one-size-fits-all inventory control methodology, developing a clear inventory control system and associated policies is essential for the success of any organisation.
- f. Look for key features to evaluate systems that allow you to manage your company's inventory digitally.
- g. Identify critical spares for maintenance inventory and ensure that they're in stock at all times.
- h. Shipments should be closely reviewed, as receiving inventory is a key point of loss.
- i. Assign the right inventory management team with the task of owning your organization's inventory control processes.
- j. Like inventory should have a single storage location, with the exception of an overstock location if necessary.
- k. Successful inventory control is finding the right balance between the costs of inventory and the benefits of inventory.
- l. Find a way to evaluate what products are moving and what products are not.
- m. Measurement is essential. You cannot control what you don't measure.
- n. You should be able to break down your inventory into three basic categories: safety, replenishment, and excess or obsolete stock.
- o. Even with the most sophisticated automated data collection systems, a regular inventory audit is still valuable for keeping precise tabs on your inventory.
- p. If your company must maintain inventory for equipment repairs, consider parts that can be used in a number of applications. -Creating Effective Inventory Control Policies.
- q. Dedicated inventory control managers or other administrators should be tasked with handling the administrative tasks associated with inventory control, and these roles should be separate from accounting or finance departments.
- r. Inventory management software is a valuable tool and superior.
- s. Optimizing inventory control requires continuous improvement.
- t. Give your employees tools that make them more efficient, which leads to more accurate inventory control.

4. Classification of items/ spares required for repair and maintenance of Veh/Equip/Plants are depicted as under :-

Vehicles/Equipments/Plants inducted in Border Roads Organisation are listed at table 1 above. Their original manufacturer have been mentioned. Accordingly every Vehicles/Equipment/Plants are needing two types of items, which are required day to day for keeping them mechanically healthy.

(a) **Category 'A' spares:-** These items are spares which are having Cat 'A' part number as per OEM recommendations. For example Engine assy, all Filters, Clutch plate, Master cylinder, Leafs and Axle bearing etc.

(b) **Cat 'B' items :-** These items are covered under those items which are left after considering Cat 'A' spares. For Example Tyres, Battery, Battery lead, Rubber Beading, upholstery items and lubricants etc. These are not having manufacturer part number in the literature.

In this article, a detailed discussion on Cat 'A' spare parts have been carried out and further classification/categorisation of spare parts have been carried out for easy and efficient monitoring/controlling of their requirement w.r.t ground. These categorisation is for simplification/easy provisioning/monitoring the quantities required for right place, at right time and in right quantity.

(a) First category of spares are taken after considering day to day requirement for maintenance/repair of Vehicle/Equipment/Plants and it is decided to consider all kinds of filters like fuel filters, oil filters, hydraulic filters, transmission filters and air filters etc.

(b) Other category of spares like fast moving spares, repairable assemblies and electrical spares etc. will be considered for study in next article in continuation of this article.

(c) Minor Items: - Items as mentioned below are to be kept in sufficient quantity at different detachments for immediate fitments to Vehicle/Equipment/Plants on requirement basis. These items are of minor nature and having commonality with almost all Vehicle/Equipment/Plants, details as under in table 2 :-

TABLE No. 2 : MINOR ITEMS

| Sr. No. | Nature of parts | Description and procedure for arranging as per requirements |
|---------|--|--|
| (a) | Feed Pump valves & banjo bolts and washer | This is required for almost all Vehicle/Equipment/Plants, and to be kept with each technicians. |
| (b) | Propeller shaft nuts and bolts | This is to be kept at all detachments and HQ workshop. |
| (c) | Hydraulic hose pipes of different diameter and length to use on different applications. | Modification of Ends of Hoses to be carried out as per requirement by Gas/Arc welding as per nature of requirements. |
| (d) | Radiator water hoses of different shape & size & Air intake hoses of different shape & size. | As per sample of various Vehicle/Equipment/Plants to be kept as per population of veh/eqpt/plants. |
| (e) | Bulb of 12 & 24 volts etc. | To be kept as per requirement. |

5. Categorization of Fast Moving Spares (FMS) :- These spares are required frequently for minimization of breakdown period of veh/eqpt/plants. Their quantities to be kept as per population and consumption on ground.

Application and Suitability - On account of application and suitability of items/spares (as mentioned in below Table 3 to 7 are same but ISG, Part No. and nomenclatures are different and hence their provisioning/holding is to be monitored accordingly. Also a sample room is to be maintained at HQ field Wksp. It will help for checking suitability of spares. This analysis is for requirement of all kinds of fast moving of spares of all Vehicles/Equipments/Plants mentioned in Table No. 1. An effort have been taken to analyze maximum Vehicle/Equipment/Plants of BRO. Details of types of spares under study in this category are as under :-

| Sr. No. | Types of spares | Table No. |
|---------|--------------------------------|--------------|
| a | Fast moving spares | Table No. 3 |
| b | Reparable Assys | Table No. 4 |
| c | Leaf spring and accessories | Table No. 5 |
| d | Hub Brg and Seals | Table No. 6 |
| e | Fan Belts | Table No. 7 |
| f | Important notes on other seals | Table No. 8 |
| g | Self Starters | Table No. 9 |
| h | Alternators | Table No. 10 |

TABLE NO. 3 : COMMONALITY OF FAST MOVING ITEMS

(I). HEAD GASKETS

| A. Head Gasket-Maruti Gypsy-410 | | | | |
|--|---------------------------------|-----|-----------------------------|---------------------|
| S/ No | Make & Type | ISG | Part No. | Nomenclature |
| (a) | F-10A Ftd with Maruti Gypsy-410 | 2 | 11100M80812/1 1100-80812 | Gasket Set Cyl Head |
| B. Head Gasket-Maruti Gypsy-413 | | | | |

| | | | | |
|--|---|-------|--|---|
| (a) | F-10A MPFI Ftd with Maruti Gypsy-413 | 1002 | 11141M86512 | Gasket Cyl Head |
| C. Head Gasket Tata 407 | | | | |
| (a) | 497 SP 21/TC Ftd with Tata 407/Tata JD 315 | 38 | 252701155308 | Gasket Cyl Head |
| D. Head Gasket Tata 1210 | | | | |
| (a) | 692 Ftd with Tata 1210 | 88 | 252301155303 | Gasket Cyl Head |
| E. Head Gasket Tata 1612 | | | | |
| (a) | 697 Ftd with Tata 1612/ 697 Ftd with 1613/ 697 TD Ftd with Tata 1613 TC | 3056 | 3520160620 | Gasket for Cyl Head |
| F. Head Gasket Tata 1613/1212TC/ EX200/JS200 | | | | |
| (a) | 6BT 5.9 Ftd with 1613 TC/ 6BT 5.9 Ftd with 1212 TC/ 6BT 5.9 Ftd with Dumper 2516 6BT 5.9 Ftd with Tata Hitachi EX 200 6BT 5.9 Ftd with JCB JS 200 | 53 | 32822805/27860 1999931/278601 989906/3283570 | Gasket Cyl Head |
| G. Head Gasket – Ashok Leyland CT 1613 | | | | |
| (a) | A/Leyland Hino HA 6DT 12 D TC Ftd with CT 1613 | - | F-1768500 | Gasket Cyl Head |
| H. Head Gasket – Ashok Leyland CT 1616 | | | | |
| (a) | A/Leyland HA 6ET13KN/22 Ftd with CT 1616 | | X1700813 | Gasket Cyl Head |
| J. Head Gasket – Ashok Leyland Dumper 2516 | | | | |
| (a) | A/Leyland 6TA2N/2 fitted with Dumper 2516 | | F1719600 | Gasket Cyl Head |
| K. Head Gasket BD-50 fitted with Cummins Eng | | | | |
| (a) | N-495 Ftd with BD-50 Dozer/ N-743C TC Ftd with BD-80 Dozer/ N-495 TC Ftd with P/Loader N-743 TC Ftd with M/Grader | 93 | AR-02883 | Gasket Cyl Head |
| L. Head Gasket BD-50 fitted with BEML BEML BS6D-105-1 | | | | |
| (a) | Head Gasket BD-50 and Hyd Excv BE-220 | | 10Z1270461 | Cylinder Head Gasket |
| M. Head Gasket BD-80 fitted with BEML BEML BS6D-125-1 | | | | |
| (a) | Head Gasket BD-80 | | 31Z1100018 | Cylinder Head Gasket |
| N. Head Gasket – 4R-1040 | | | | |
| (a) | 4R-1040 Ftd with JCB 3DX/ 4R-1040 Ftd with Paver RM-6 | - | 4H.007.24.000 | Gasket for Cyl Head (Thickness 1.25) |
| O. Head Gasket – JCB 430Z W/Loader | | | | |
| (a) | ALU 411 Ftd with JCB 430 W/Loader | - | F-1718000 | Cylinder Head Gasket |
| P. Head Gasket – Paver Finisher BG-220 | | | | |
| (a) | ALU 370 Ftd with Paver BG-220 | 71/72 | F-1734900 | Cylinder Head Gasket |
| Q. Head Gasket – 30KVA Gen Set Ruston | | | | |
| (a) | 4 YDA Ftd with Gen Set 30KVA/ 3 YDA Ftd with Gen Set 11.25KVA | 11 | 002200101013/22 00100031/Y2DA1 0031 | Gasket Cyl Head |
| R. Head Gasket – L&T Case 450 | | | | |
| (a) | M&M XDP 4.9 Ftd with L&T Case 450 | - | 7932566274 | Gasket Cyl Head |
| S. Head Gasket – AJRR, BMRR & SCRR Ftd With P4 Engine | | | | |
| (a) | P4 Eng Ftd with AJRR/P4 Eng | 562 | 490038 | Gasket Cyl Head |

| | | | | |
|--|---|-------|-----------|-----------------|
| | Ftd with BMRR P4 Eng Ftd with SCRR | | | |
| T. Head Gasket – AJRR, BMRR & SCRR Ftd With S4 Engine | | | | |
| (a) | P4 Eng Ftd with AJRR/S4 Eng Ftd with BMRR S4 Eng Ftd with SCRR | 562.1 | S4004912 | Gasket Cyl Head |
| U. Head Gasket – HA 694 Engine | | | | |
| (a) | HA 694 Engine fitted with TVRR Escort/TVRR Bomang/TVRR L&T& Soil Compactor Escort | | S4004912 | Gasket Cyl Head |
| V. JCB 3DX Super fitted with JCB 444 Engine | | | | |
| (a) | JCB 3DX super Filled with JCB 444 Engine | | 320/02608 | Gasket Cyl Head |

(II). INJECTION / SPARK PLUGS

| | | | | |
|---|---|------|--------------|-----------------------------|
| A. Spark Plug – Maruti Gypsy-410 | | | | |
| (a) | F-10A Ftd with Maruti Gypsy-410 | 17 | 09482N00131 | Spark Plug |
| B. Spark Plug – Maruti Gypsy King-413 | | | | |
| (a) | F-10A MPF1 Ftd with Maruti Gypsy-413 | 1008 | 09482-00427 | Spark Plug |
| C. Assy Injector – Tata Zenon | | | | |
| (a) | Tata Zenon | | 253401160122 | Assy Injector |
| D. Assy Injector BS-4 Tata safari | | | | |
| (a) | Tata Safari | | 78901160101 | Assy Injector BS-IV |
| E. Assy Injector BS-4 JCB 3DX/4DX fid with JCB 444 | | | | |
| (a) | JCB 3DX/4DX Super | | 320/06528 | Assy Injector BS-IV Nos-04 |
| F. Assy Injector BS-III A/Leyland 1616 fitted with A/L HA6ET13KN | | | | |
| (a) | A/Leyland Tpr/LC 1616 | | X7473500 | Assy Injector BS-III Nos-06 |
| G. Assy Injector BS-II A/Leyland 2516 fitted with AL-HA6DT12N | | | | |
| (a) | A/Leyland Dumper 2516 | | F8249500 | Assy Injector BS-II Nos-06 |
| H. Assy Injector BS-III1212 TC fited with 6BT Engine | | | | |
| (a) | Tata Tipper BS-III 1212 TC | | F002C7Z006 | Assy Injector BS-III Nos-06 |
| J. Assy Injector BS-II fited with 694 Engine | | | | |
| (a) | HA 694 Ftd with L&T 752 Vib RR/IR Vib RR/Bomag Vib RR/HA 694 TC Ftd with 50 KVA G/Set/TVRR HD85 Escort/ Soil Compactor Escort | | 02.035.30.0 | Assy Injector BS-II Nos-06 |

(III). FEED PUMP

| | | | | |
|--|--------------------------------------|-----|-----------------------|---------------------------------|
| A. Feed Pump-(Without Glassy) Tata 407 | | | | |
| (a) | 497SP21 Ftd/TC with T/407/JD315 | 226 | 9440030029 | Assy F/Pump (Straight Pin Type) |
| B. Feed Pump (With Glassy)-Tata 692/697 Engines | | | | |
| (a) | 692/697 Ftd with Tata 1210/1612/1613 | 223 | 9440030028 | Fuel Feed Pump |
| C. Feed Pump (Without Glassy)-Tata TC | | | | |
| (a) | 6BT 5.9 Ftd with 1613 1212 TC | 281 | 3935319/27860 7999971 | Pump Fuel Lift |

| | | | | |
|---|---|-------|-------------------------------|-------------------------------------|
| (b) | 6BT 5.9 Ftd with 2516 TC | - | 9440030035 | Assy Feed Pump |
| (c) | RB-44 TC Ftd with JCB 3DX | 109 | 34016400 | Feed Pump |
| (d) | HA 694 9 Ftd with L&T 752 Vib RR/HA 694 Ftd with IR Vib RR/HA 694 Ftd with Greaves Bomag | 48 | 34-016-400 | Feed Pump (Mico No. 94400300303) |
| (e) | TBD 232 V-8 Ftd with G/Set 160 KVA | 156 | 105200100005 | Hand Pump (Mico No. 9440037000) |
| (f) | 3YDA Ftd with G/Set 11.25 KVA Greaves | 140.1 | 9440030003 | Fuel Feed Pump Assy |
| (g) | P4 Ftd with AJRR/BMRR/SCRR | 724 | 9440030003/FP /KSG221D45/2 | Fuel Feed Pump |
| D. Feed Pump A/Leyland Dumper 2516 | | | | |
| (a) | A/Leyland Dumper 2516 | | X7462300 | Fuel Feed Pump |

(IV). CLUTCH PLATES/SEGMENTS

| | | | | |
|--|--|------|-------------------|--|
| A. Clutch Plate-Maruti Gypsy-410, DIA-179 MM | | | | |
| (a) | F-10A Ftd with Maruti Gypsy-410 | 189 | 22400M85220 | Disc Clutch |
| B. Clutch Plate-Maruti Gypsy King -413, DIA-190MM | | | | |
| (a) | F-10A MPF1 Ftd with Maruti Gypsy-413 | 1277 | 22400M83060 | Disc Clutch |
| C. Clutch Plate-Tata 407/Tata 207, DIA 240 MM | | | | |
| (a) | 497 SP 21 Ftd with Tata 407 | 579A | 265125200106 | Assy 240 Dia Disc |
| (b) | Tata 207 BSII | 381 | 272425200127 | Assy 240 Dia Clutch Disc (F510) |
| D. Clutch Plate Tata Safari 240 MM | | | | |
| (a) | Tata Safari | | 272425200170 | Clutch plate Dia 240 mm |
| E. Clutch Plate Tata Xenon 260 MM | | | | |
| (a) | Tata Xenon | | 272425200188 | Assy 260 Dia Disc |
| F. Clutch Plate M/Boloro | | | | |
| (a) | M&M Boloro | | 0801CA0172N | Clutch plate |
| G. Clutch Plate-Tata 207 BSIII, DIA 228 MM | | | | |
| (a) | Tata 207 BSIII | | 269925200114 | Clutch Plate assy 228 Dia Driven Plate |
| H. Clutch Plate-Tata 407 BSIII, DIA 280 MM | | | | |
| (a) | Tata 407 BSIII | | 264125200133 | Assy 280 Dia Clutch Disc (Reinforced) |
| J. Clutch Plate AMW Dumper / Trailer | | | | |
| (a) | AMW Dumper 2523 (6X4) | | 886325013118 | Assy Clutch Disc – 380MM |
| K. Clutch Plate M & M Dumper Torro 25 | | | | |
| (a) | M&M Dumper Torro 25 (6X4) | | 6801BAU0002 1N | Assy Clutch Disc – 392MM |
| L. Clutch Plate-Tata 310 MM DIA | | | | |
| (a) | 692 Ftd with Tata 1210 | 690 | 257325200110 | Assy Clutch Disc - 310 |
| (b) | 697 Ftd with Tata 1612/1613 | 3644 | 257325200108 | Assy Clutch Disc - 310 |
| (c) | 6BT 5.9 Ftd with 1613/1212 TC | 532 | 257325200101 | Assy Clutch Disc - 310 |
| (d) | Tata 1613TC LPT, 1613TC SE, SK & 1212 TC SA SAK | 533 | 264625400101 | Assy Cover Plate 310 Dia (F&S) |

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|--|-----------------------------|------|-------------------------------------|--|
| M. Clutch Plate-Tata 330 MM DIA | | | | |
| (a) | Tata BS2 | 592 | 276325200116 | Assy Clutch Disc (330 Dia, Ceramic) |
| N. Clutch Plate-Tata 352 MM DIA | | | | |
| (a) | Tata Tpr /WT/LC BS3 | | 275225200106 | Clutch Plate (352 Dia, Clutch Disc Assy (1.75" Spline) |
| (b) | 6BT AA 5.9 Ftd with 2516 TC | - | 275425200108 | 352 Dia Driven Disc |
| (c) | Tata Tpr /WT/LC BS3 | | 252503110132 | Assy Fly wheel with Ring gear 697 BS -III |
| (d) | Tata Tpr /WT/LC BS3 | | 278603990196 | Assy Fly wheel with Ring gear 6BT BS -III |
| O. Clutch Plate- Ashok Leyland 14" DIA | | | | |
| | A/Leyland CT 1613/1616 | 482 | B-1304802/ B1304801/ B1304804 | 14" Clutch Disc-F410 Facing |
| | A/Leyland CT1613/1616 | | F7202322 | Face Plate for 14 RDC Fly Wheel |
| P. Clutch Plate-Ashok Leyland 15" DIA 2516 Dumper | | | | |
| (a) | Ashok Leyland DPR 2516 | 913 | B1304301 | 15" Ceramic Clutch Disc - Lipe |
| Q. Clutch Plate-BD-50 fitted with Cummins & BEML Engine | | | | |
| | BD-50 Dozer | 83 | 1311011110 | Disc Main Clutch |
| | BD-80 Dozer | 1372 | 1311011110 | Disc Main Clutch |
| R. Dragline 101 ME | | | | |
| | Drive Plate (Clutch Plate) | | GP56590L | Drive Plate (set of 03 pcs Fiber) |
| | Centre Plate (Clutch Plate) | | GPA65130 | Centre Plate (set of 02 pcs Iron) |
| S. Clutch Plate Forward-Road Roller | | | | |
| (a) | AJRR | 141 | JAQ 79079A | Forwarded Clutch Plate |
| (b) | SCRR | 167 | 10P-34 | Forwarded Clutch Plate |
| T. Clutch Plate Reverse-Road Roller | | | | |
| (a) | AJRR | 134 | JAQ 79080A | Reverse Clutch Plate |
| (b) | SCRR | 161 | 10P-28 | Reverse Clutch Plate |
| U. Clutch Segment –BMRR | | | | |
| (a) | BMRR | 273 | 9520020 | Facing (In Segments) |

(V). PRESSURE PLATE

| | | | | |
|---|--------------------|------|--------------|------------------------------------|
| A. Pressure Plate-Maruti Gypsy-410, 179 MM DIA | | | | |
| (a) | Maruti Gypsy – 410 | 188 | 22100M80011 | Cover Assy Clutch |
| B. Pressure Plate-Maruti Gypsy-413, 190 MM DIA | | | | |
| (a) | Maruti Gypsy – 413 | 1276 | 22100M83060 | Cover Assy Clutch |
| C. Pressure Plate-Tata 407, 240 MM DIA | | | | |
| (a) | Tata 407 | 581 | 265125400108 | Pressure Plate 240 MM |
| (b) | Tata 207 BS-2 | 382 | 272425400125 | Assy 240 Dia Clutch Pressure Plate |
| D. Pressure plate Tata Safari 240 MM | | | | |

| | | | | |
|---|------------------------------------|------|------------------------|--|
| (a) | Tata Safari | 240 | 272425400157 | Clutch Cover 240 MM |
| E. Pressure Plate-Tata 207 BSIII | | | | |
| (a) | Tata 207 BSIII | | 269925400111 | Clutch cover Assy 228 Dia |
| F. Pressure Plate Tata Xenon 260 MM | | | | |
| (a) | Tata Xenon | 260 | 272425400188 | Clutch cover 260 MM |
| G. Pressure plate M/Boloro | | | | |
| (a) | M&M Bolero | | 0801BA0281N | Pressure plate |
| H. Pressure Plate-Tata 407 BSIII | | | | |
| (a) | Tata 407 BSIII | | 264125400105 | Assy 280 Dia Pressure Plate |
| J. Pressure plate M & M Dumper | | | | |
| (a) | M&M Dumper Torro 25 (6X4) | 392 | 6801AAP00012 N | Assy Pressure plate – 392 |
| K. Pressure Plate-310 MM DIA, Tata | | | | |
| (a) | Tata 1210 | 682 | 257325400117 | Pressure Plate 310 MM |
| (b) | Tata 1612 | 3640 | 257425400101 | Assy Pressure Plate |
| (c) | Tata 1613 | 3641 | 263225400101 | Assy Pressure Plate |
| (d) | Tata 1613 TC | 533 | 264625400101 | Assy Pressure Plate |
| L. Pressure Plate-330MM DIA, Tata | | | | |
| (a) | Tata Tpr 1613 BSII | 591 | 276325400120 | Assy Clutch Pressure Plate (330 Dia Coil Type) |
| M. Pressure Plate-352 MM DIA, Tata | | | | |
| (a) | Tata Tpr/LC 1613 BSIII/1212 BS III | 682 | 275225400105 | Assy Clutch Pressure Plate (352 Dia Coil Type) |
| N. Pressure Plate-Tata 2516 TC | | | | |
| (a) | Tata 2516 TC | - | 275425400108 | 352 MM Dia Cover Assy |
| O. Pressure Plate-Ashok Leyland 14" DIA | | | | |
| (a) | A/Leyland CT 1613/1616 BS-III | | B-1305801/ B1301501 | 14" RDC Clutch cover S/A with F4 10 Facing |
| P. Pressure Plate-Ashok Leyland 15" DIA, 2516 Dumper | | | | |
| (a) | A/Leyland 2516 DPR | 912 | B1391801 | 15" Dia Clutch cover S/A |
| Q. Pressure Plate-BD-50FTD WITH CUMMINS ENG/BEML ENG | | | | |
| (a) | BD-50 Dozer | 84 | 1311011120 | Plate Main Clutch |
| R. Pressure Plate-BD-80FTD WITH CUMMINS ENG/BEML ENG | | | | |
| (b) | BD-80 Dozer | 1373 | 1311011120 | Plate Main Clutch |

(VI). CLUTCH RELEASE BEARING

| | | | | |
|---|------------------|------|---------------------------------|------------------------|
| A. Clutch Release Bearing-Gypsy | | | | |
| (a) | Maruti Gypsy-410 | 190 | 23265-70C00 | Bearing Clutch Release |
| (b) | Maruti Gypsy-413 | 1278 | 23265-70C00 | Bearing Clutch Release |
| B. Clutch Release Bearing-M&M Bolero | | | | |
| (a) | M&M Bolero | | 0802CAA0374 0N | Bearing Clutch Release |
| C. Clutch Release Bearing-Tata 407 BSII | | | | |
| (a) | Tata 407 BSII | 587 | 2651 2560 3105 / 2651 2560 3107 | Clutch Release Bearing |

| | | | | |
|--|---------------------------|--------|----------------|--|
| D. Clutch Release Bearing-Tata 407 BSII | | | | |
| (a) | Tata 407 BSIII | | 257525603106 | Clutch Release Bearing |
| E. Clutch Release Bearing-Tata | | | | |
| (a) | Tata 1210 | 980 | 3222500215 | Ball Bearing with Release Sleeve |
| (b) | Tata 1612 | 3762 | 3222500215 | Ball Bearing with Release Sleeve |
| (c) | Tata 1613 | 3763 | 257525600110 | Ball Bearing with Release Sleeve |
| F. Clutch Release Bearing-Tata BSII | | | | |
| (a) | Tata 1613 BSII | 593 | 264125600103 | Assy Clutch Release Bearing with Sleeve |
| G. Clutch Release Bearing-Tata BSIII | | | | |
| (a) | Tata 1613 BSIII | | 275225400110 | Assy Release Bearing (1.75 Dia) |
| H. Clutch Release Bearing-Tata BSII | | | | |
| (a) | Tata 1613 TC/Tata 1212 TC | 538 | 257525603101 | Clutch Release Bearing |
| J. Clutch Release Bearing-Tata 2516 TC | | | | |
| (a) | Tata 2516 TC | - | 275425400118 | Clutch Release Bearing |
| K. Clutch Release Bearing-AL 1616 TPR BSIII | | | | |
| (a) | AL 1616 Tpr BSIII | 492 | F0253810 | Clutch Release Bearing (ALT NO. F0256810) |
| L. Clutch Release Bearing-AL 2516 DPR | | | | |
| (a) | A/L 2516/2 DPR | 938 | F0255710 | Clutch Release Bearing FAG- (ALT NO. F0201410) |
| M. Clutch Release Bearing-Ashok Leyland | | | | |
| (a) | A/Leyland CT 1613 | - | F0201410 | Clutch Release Bearing |
| N. Clutch Release Bearing-M&M Dumper | | | | |
| (a) | M&M Dumper | | 6802AAP00031 N | Clutch Release Bearing |
| O. Clutch Release Bearing-BMRR | | | | |
| (a) | BMRR | 265.03 | 9520015 | Release Bearing Assy |

(VII). CLUTCH MASTER CYLINDER

| | | | | |
|--|----------------------------------|---------|---------------------------|---|
| A. Assy Clutch Master 19.05 MM DIA | | | | |
| (a) | Tata 407 BS-3/BS-2/T 207 BS3/BS2 | 501/771 | 2658 2910 0114 | Assy Clutch Master Cylinder 19.05 MM Dia |
| B. Clutch Master Cylinder Repair Kit-Tata 407 | | | | |
| (a) | Tata 407 | 774 | 269929100177/265129100136 | R/Kit (Major) Clutch Master Cylinder (19.05 MM Dia) |
| (b) | Tata 407 | 775 | 265129100148 | |
| (c) | Tata 2516 TC | - | NK | |
| C. Assy Clutch Master 25.4 MM DIA | | | | |
| (a) | Tata Tpr BS1 / BS2 | 726 | 261829100107 / 106 | Assy Clutch Master Cyl 25.4 Dia |

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|--|--------------------------|-----------|-------------------|---|
| D. Assy Clutch Master 25.4 MM DIA Repair Kit | | | | |
| (a) | Tata Tpr BS1 / BS2 | 731 | 251829100109 | Repair Kit (Major) for 25.4 MM Dia Clutch Master Cylinder |
| E. Assy Clutch Master Tata BS 3 | | | | |
| (a) | Tata AM BS3 | | 207829100122 | Assy Clutch Master Cyl |
| G. Clutch Master Cylinder Repair Kit – Tata 1612 | | | | |
| (a) | Tata 1612 | NS | TVS-29967063 | Repair Kit Clutch M/Cyl |
| (b) | Tata 1613TC/Tata 1212 TC | 705 | 260029100149 | Repair Kit Clutch M/Cyl |
| H. Assy Clutch Master Cylinder Ashok Leyland DPR 2516 | | | | |
| (a) | Ashok Leyland DPR 2516 | 2101 | B3608001 | Master Cylinder Assy |
| J. Assy Clutch Master Cylinder Ashok Leyland DPR 2516 | | | | |
| (a) | Ashok Leyland DPR 2516 | 2102/2107 | P1606651/P1602051 | Master Cylinder Kit Major |

(VIII). SLAVE CYLINDER REPAIR KIT

| | | | | |
|--|---------------------------|-----|------------------------------|---|
| A. Assy Slave Cylinder | | | | |
| (a) | T/407 BS-3/ BS2 | 783 | 2651 2910 0123 / 26529100167 | Slave Cylinder Assy (25.4MM) |
| B. Slave Cylinder Repair Kit | | | | |
| (a) | T/407 BS-3/ BS2 | 784 | 2551 2910 0137 | Major Kit CL Slave Cyl (See Annx-II Srl No. 15) |
| C. Assy Slave Cylinder | | | | |
| (a) | Tata AM BS2 / BS3 | 727 | 275429100106 / 251029300102 | Clutch Slave Cylinder |
| D. Slave Cylinder Repair Kit | | | | |
| (a) | Tata AM BS2 / BS3 | 733 | 265429100157 / 257329100161 | Repair Kit Major Slave Cylinder |
| E. Slave Cylinder Repair Kit – Tata 407 | | | | |
| (a) | Tata 407 | 784 | 265129100137 | Clutch Slave Cyl |
| (b) | Tata 407 | 785 | 265129100132 | Major Repair Kit |
| F. Slave Cylinder Repair Kit – Tata 1612 | | | | |
| (a) | Tata 1612 | NS | NK | Slave Cyl Repair Kit |
| (b) | Tata 1613 TC/Tata 1212 TC | 706 | 260029100150 | Slave Cyl Repair Kit |
| G. Slave Cylinder Repair Kit-Tata 2516 TC | | | | |
| (a) | Tata 2516 TC | - | NK | Slave Cyl Repair Kit |
| H. Slave Cylinder Repair Kit-Ashok Leyland | | | | |
| (a) | A/Leyland CT 1613 | - | P1602651 | Slave Cyl MNR/MJR Repair Kit |
| J. Assy Slave Cylinder Ashok Leyland DPR | | | | |
| (a) | Ashok Leyland DPR 2516 | 936 | F7847500 | Slave Cyl Assy |
| K. Assy Slave Cylinder Repair Kit Ashok Leyland DPR | | | | |
| (a) | Ashok Leyland DPR 2516 | 939 | P1606851 | Clutch S/C Major |

| | | | | Kit Comprises of |
|---|--|------|--------------|-----------------------------|
| L. Clutch Slave Cyl Repair Kit JCB 3DX Super | | | | |
| (a) | JCB 3DX Super | | WA9141920 | Clutch Slave Cyl Repair Kit |
| (IX). STEERING UJ CROSS | | | | |
| A. Steering UJ Cross – Maruti Gypsy | | | | |
| (a) | Maruti Gypsy - 410 | 560 | 48230-80120 | Steering UJ Cross |
| (b) | Maruti Gypsy - 413 | 1668 | 48230M80100 | Steering UJ Cross |
| B. Steering UJ Cross – Tata 407 | | | | |
| (a) | Tata 407 | 1538 | 265146600102 | Assy Universal Joint |
| C. Steering UJ Cross Tata | | | | |
| (a) | Tata 1210 | - | 3274600154 | Assy Cross |
| (b) | Tata 1612 | 4306 | 3274600154 | Assy Cross |
| (c) | Tata 1613 BS2, T407/207 BS2, BS3, T/BS2, BS3 | 1538 | 257346205102 | UJ Cross |
| (d) | Tata 1613 TC/TATA 1212 TC | 1265 | 257346200106 | Assy Universal Joint |
| D. Steering UJ Cross – Tata 2516 TC | | | | |
| (a) | Tata 2516 TC | | 257346200106 | U Joint Steering Assy |
| E. Steering UJ Cross – Ashok Leyland CT 1612 | | | | |
| (a) | A/Leyland CT 1613 | - | F7454300 | UJ Cross |
| F. Steering UJ Cross - Ashok Leyland DPR/TPR | | | | |
| (a) | A/L 1613 TPR/DPR | 1987 | X3958200 | Universal Joint Assy STG-1 |

(X). BRAKE MASTER CYLINDER REPAIR KIT

| | | | | |
|--|--------------------|---------------|---------------------------------|---|
| A. Assy Brake Master Cylinder Gypsy | | | | |
| (a) | Maruti Gypsy – 413 | 1709 | 51000M 80900 | Cyl Assy Brake Master |
| B. Assy Brake Master Cylinder Gypsy | | | | |
| (a) | Maruti Gypsy - 410 | 604 | 51100M82720 / 51100M80660 | Cyl Assy Brake Master |
| C. Brake Master Cylinder Repair Kit - Gypsy | | | | |
| (a) | Maruti Gypsy - 410 | 605 | 51100M80860/ | Piston/Cup Set |
| (b) | Maruti Gypsy – 413 | NS | 5110-8.006 | Piston/Cup Set |
| D. Brake Master Cylinder Repair Kit – Tata | | | | |
| (a) | Tata 407 | 1312/ 1313 | 264043100105/ 264043100106 | Rep Kit Brake Master Cylinder (MNR/MJR) |
| E. Assy Brake Master Cylinder Tata 207 | | | | |
| (a) | Tata 207 BS2/BS3 | 821 | 2698 4310 0101/ 269843100110 | Tandem Master Cyl (Dia 23.81) |
| F. Assy Brake Master Cylinder Tata 207 Repair Kit | | | | |
| (a) | Tata 207 BS2/BS3 | 823 | 2654 4310 0108/ 265443100132 | TMC Repair Kit (Major) |
| (b) | Tata 207 BS2/BS3 | 824 | 265443100109 | TMC Repair Kit (Major) |
| G. Assy Brake Master Cylinder Tata 407 BS 2 | | | | |
| (a) | Tata 407 BS2 | 1311 | 2698 4310 0101 | Assy Tandem Master Cyl (Dia 23.81) |

| H. Assy Brake Master Cylinder Repair Kit Tata 407 BS 2 | | | | |
|--|------------------|---------------|----------------------------------|--|
| (a) | Tata 407 BS2 | 1312 | 2654 4310 0105 | Repair Kit (Major) Tandem Master Cyl (23.81 mm Dia) |
| (b) | Tata 407 BS2 | 1313 | 2640 4310 0106 | Repair Kit (Minor) Tandem Master Cyl (23.81 mm Dia) |
| J. Assy Brake Master Cylinder Tata 407 BS 3 | | | | |
| (a) | Tata 407 BS3 | NS | 265143100136 / 29066889 | Assy Tendem Master Cyl 25.4 Dia |
| K. Assy Brake Master Cylinder Tata Repair Kit Tata 407 BS 3 | | | | |
| (a) | Tata 407 BS3 | NS | 29967148 TVS PT No. | Repair Kit (Major) Tandem Master Cyl (25.4 mm Dia) |
| (b) | Tata 407 BS3 | NS | 29967149 TVS PT No. | Repair Kit (Minor) Tandem Master Cyl (25.4 mm Dia) |
| L. Brake Master Cylinder Repair Kit (Minor)-Tata | | | | |
| (a) | Tata 1210 | 1649A | 257343110119 | Repair Kit (Major) |
| A. Assy Caliper Front Brake M/Gypsy | | | | |
| (a) | M/Gypsy 413/ 410 | 1728 | 55100M70430 | Caliper Assy Disc Brake |
| B. Assy Caliper Front Brake M/Gypsy Repair Kit | | | | |
| (a) | M/Gypsy 413/ 410 | 1730 | 55100M 78812 | Piston/cup set for caliper |
| C. Assy Caliper Front Brake Tata 207 | | | | |
| (a) | T/207 BS2/BS3 | 781 | 265442100184 / 2654 4210 0137 | Assy Caliper BRK- LH Roulund- 11EA094 (KBX) |
| (b) | T/207 BS2/BS3 | 782 | 265442100185 / 2654 4210 0138 | Assy Caliper BRK- RH Roulund- 11EA094 (KBX) |
| D. Assy Caliper Front Brake Tata 207 Repair Kit | | | | |
| | T/207 BS2/BS3 | 784 | 2654 4210 0108 | Kit Caliper MAJOR |
| | T/207 BS2/BS3 | 785 | 2654 4210 0109 | Kit Caliper MINOR |
| E. Assy Wheel Cylinder (23.81 MM DIA.) Front | | | | |
| (a) | Tata 407 BS2/BS3 | 1267 | 2640 4213 0105 /264042120101 | 23.81 Dia Wheel Cylinder Front |
| F. Wheel Cylinder (23.81 MM DIA.) Repair Kit Front | | | | |
| | Tata 407 BS2/BS3 | 1279 | 2640 4212 0107 | Repair Kit (Major) for Wheel Cylinder (23.81 mm Dia) Consisting of (Front) |
| | Tata 407 BS2/BS3 | 1298 | 2640 4212 0108 | Repair Kit (Minor) for Wheel Cylinder (23.81 mm Dia) Consisting of (Front) |
| G. Wheel Cylinder Repair Kit (Front)- Tata (44 MM DIA) | | | | |
| (a) | Tata 1210/1612 | 1499/ 4103 | 257542120102 | Wheel Cylinder Front Repair Kit |

(XI). WHEEL CYLINDER REPAIR KIT REAR

| | | | | |
|--|------------------------|-----------|-------------------|--|
| A. Wheel Cylinder Repair Kit – Gypsy (22 MM DIA) | | | | |
| (a) | Maruti Gypsy – 410 | 638 | 52400M80820 | Piston/Cup Boot Set |
| (b) | Maruti Gypsy – 413 | 1746 | 52400M80820 | Piston/Cup Boot Set |
| B. Assy Wheel Cylinder (22.22 MM DIA.) Rear | | | | |
| (a) | T/207 BS2/BS3 | 806 | 2654 4230 0119 | Assy W/C 22.22 MM |
| C. Wheel Cylinder (22.22 MM DIA.) Repair Kit Rear | | | | |
| (a) | T/207 BS2/BS3 | 807 | 265442300117 | Repair Kit (Wheel Cyl) Major |
| D. Assy Wheel Cylinder (17.78 MM DIA.) Rear | | | | |
| (a) | Tata 407 BS2 | 1287 | 2651 4230 0165 | Assy Wheel Cyl (17.78 MM Dia) Rear |
| E. Wheel Cylinder (17.78 MM DIA.) Repair Kit Rear | | | | |
| | Tata 407 BS2 | 1267 | 264042120105 /106 | Repair Kit (Major) for Wheel Cylinder (23.81 MM Dia) Consisting of (Front) |
| | Tata 407 BS2 | 1279 | 2640 4212 0107 | Repair Kit (Minor) for Wheel Cylinder (23.81 MM Dia) Consisting of (Front) |
| F. Assy Wheel Cylinder (22.22 MM DIA.) Rear | | | | |
| (a) | Tata 407 BS3 | NS | 2651 4230 0167 | Assy wheel cyl (22.22 MM Dia) (M/S BI) Rear |
| G. Wheel Cylinder (22.22 MM DIA.) Repair Kit Rear | | | | |
| (a) | Tata 407 BS3 | NS | 2651 4230 0171 | Repair Kit (Major) for Wheel Cylinder (22.22 MM Dia) Rear |
| H. Wheel Cylinder Repair Kit (Rear)-Tata (50MM DIA) | | | | |
| (a) | Tata 1210/1612/1212 TC | 1591/4169 | 257542320104 | Wheel Cylinder Repair Kit (BI) |
| J. Wheel Cyl Assy Swaraj Mazda Bus | | | | |
| (a) | Swaraj Mazda Bus | | LP4426510B | Wheel Cyl Assy LH |
| K. Wheel Cyl Repair Kit Swaraj Mazda Bus | | | | |
| (a) | Swaraj Mazda Bus | | LP4426333 | Wheel Cyl Repair Kit |

(XII). BRAKE SHOE/PAD FRONT

| | | | | |
|--------------------------------|-------------------|------|----------------|-----------------------|
| A. BRAKE PAD- GYPSY | | | | |
| (a) | Maruti Gypsy -410 | 627 | 55110M70A00 | Pad Set (Brake India) |
| (b) | Maruti Gypsy -413 | 1729 | 55110M-70A00 | Pad Set (Brake India) |
| B. BRAKE PAD – TATA 207 | | | | |
| (a) | T/207 BS2/BS3 | 783 | 2654 4210 0111 | Assy Pad |

| | | | | |
|--|-------------------------------------|-----------------------|--|---|
| C. M& M Scorpio- Kit Pad Assy | | | | |
| (a) | M& M Scorpio | | 0603BAB02850 N | Kit Pad Assy |
| D. Tata Safari- Kit Pad assy | | | | |
| (a) | Tata Safari | | 287042100110 | Kit Pad Assy |
| E. M&M Bolero- Kit Pad assy | | | | |
| (a) | M&M Bolero | | 0603BA0601N | Kit Pad Assy |
| F. Brake Liner – Tata 407, Front & Rear | | | | |
| (a) | Tata 407 (Front & Rear) | 1260 | 264042136306 | Brake Lining (PRY) |
| G. Brake Shoe Front – Tata All Model BS2/BS3 | | | | |
| (a) | Tata All Model BS2/BS3 | 984/ 1002/ 4106 | 257342130124 / 257342136354 / 257342136302 | Kit Brake lining set Front (14.3MM) (STD) M/s Bil Consists of |
| H. Brake Shoe Front – Ashok Leyland TPR / LC 1616 | | | | |
| (a) | Ashok Leyland Tpr 1616 BSIII /LC | NS | P3616351 | Kit lining set (STD) Comprises of lining Machining-8, Rivits-80 Front |
| J. Brake Shoe Front – Ashok Leyland DPR 2516 | | | | |
| (a) | Ashok Leyland Dpr 2516 | 1419 | P3601351 | 5" EBL BRK Lining Kit-HF7 STD Front |
| K. Brake Shoe Liner Front - Tata 1210 | | | | |
| (a) | Tata 1210 | 1527A | 257342136354 | Brake lining STD 14.3 |
| L. Brake Shoe Liner (Front) Tata 1210 (4x4) | | | | |
| (a) | 1210 SAK (4X4) | 1527A | 257342136354 | Brake lining STD |
| (b) | 1212 TC SAK (4X4) | 1002 | 257342136354 | Brake lining STD |
| M. Brake Shoe Liner (Front)-Tata TC | | | | |
| (a) | Tata 1612 | 4141 | 257342132124 | Kit Brake Lining Set |
| (b) | Tata 1613 TC | 984 | 257342130124 | Kit Brake Lining Set |
| (c) | Tata 2516 TC | - | 257342130124 | Kit Brake Lining Set |
| N. Brake Shoe Liner (Front)- Ashok Leyland | | | | |
| (a) | A/Leyland CT 1613 | - | P3601351 | Brake Lining Set 5" |

(XIII). BRAKE SHOE/PAD REAR

| | | | | |
|---|-------------------|------------|----------------------------------|---|
| A. Brake Shoe Rear-Maruti Gypsy | | | | |
| (a) | Maruti Gypsy -410 | 639 | 53210M83041 | Shoe Brake |
| (b) | Maruti Gypsy -413 | 1741 | 53200M83310 | Shoe Set |
| B. Brake Shoe Rear- Tata 207 | | | | |
| (a) | Tata 207 BS2/BS3 | 808/ NS | 271942300123 / 2654 4230 0110 | Kit Lining Set (STD) Rear Consisting of |
| C. M& M Scorpio- Kit Lining Shoe | | | | |
| (a) | M& M Scorpio | | 0602BAB05390 N | Kit Lining Shoe |
| D. Tata Safari- Assy Kit Lined Shoe | | | | |
| (a) | Tata Safari | | 287042300134 | Assy Kit Lined Shoe |

| | | | | |
|---|---------------------------------|------------|--------------------------------|--|
| E. M&M Bolero- Brake Lining Set | | | | |
| (a) | M&M Bolero | | 0602BAB05960 N | Assy Kit Lined Shoe |
| F. Brake Shoe Rear- Tata 407 | | | | |
| (a) | Tata 407 BS2/BS3 | 1260 | 2640 4213 6306 | Brake Lining (pry) normal (9.8MM thick-4) |
| (b) | Tata 207 BS2/BS3 | 1264 | 2640 4213 6302 | Brake Lining (Secondary) STD (9.8 MM thick-4) |
| (c) | Tata 207 BS2/BS3 | 808/ NS | 1344 2506 102 | Hollow River 6x10 St -112 |
| G. Brake Shoe Rear – Tata All Model BS2/BS3 | | | | |
| (a) | Tata All Model BS2/BS3 | 4238 | 257342330124 / 257342336328 | Kit Lining Set (Rear) (STD) (17 MM Thick) M/s Bil Consists of |
| H. Brake Shoe Rear – Ashok Leyland TPR / LC 1616 | | | | |
| (a) | Ashok Leyland Tpr 1616 BSIII/LC | NS | P1613751 | Kit Lining Set (STD) Comprises of lining machining-8, Rivits-80 Rear |
| J. Brake Shoe Rear-Ashok Leyland DPR 2516 | | | | |
| (a) | Ashok Leyland TPR DPR 2516 | 1586 | P1603451 | Kit-Lining Set (STD) Rear |
| K. Brake Shoe Liner Rear-Tata | | | | |
| (a) | Tata 1210 | 1602 | 257342336301 | B/Lining STD (14.3 MM) |
| L. Brake Shoe Liner Rear (Fully Air Brake)-Tata TC | | | | |
| (a) | Tata 1612 | 4171 | 257342336301 | B/Lining STD (14.3 MM) |
| (b) | Tata 1613 TC | 1039 | 257342330124 | Kit Lining Set Rear (STD) |
| (c) | Tata 2516 TC | - | 257342330124 | Kit Lining Set (Rear) |
| M. Brake Liner Rear – Tata 1210 (4x4) | | | | |
| (a) | Tata 1210 SAK (4X4) | 1605 | 257342336328 | Brake Lining STD (14.3) |
| (b) | Tata 1212 TC | NS | 257342336328 | Brake Lining STD |
| N. Brake Shoe Liner Rear – Ashok Leyland | | | | |
| (a) | A/Leyland CT 1613 | - | P3601651 | Brake Lining Set 7" RR |

(XIV). AIR DRYER WITH UNLOADER VALVE REPAIR KIT

| | | | | |
|---|--------------------------------------|------|--------------------------------|---|
| A. Air Dryer With Unloader Valve Repair Kit- Tata TC MSP-3/75 (Major) & 3/78 (Minor) | | | | |
| (a) | Tata 1613 TC/Tata 1212 TC | 1121 | 264143700111 | R/Kit Air Dryer with unloaded valve (SCL) |
| (b) | Tata 2516 TC | | 264143700111 | |
| (c) | A/Leyland CT 1613 | | P-100853/P-1018651 | |
| B. Drying And Distribution Unit HI PR, Voss Port, Type Inflator | | | | |
| (a) | Tata BS2 /BS3, AL 1616 TPR BSIII/ LC | 1336 | 278243700163 / F8836500 | Drying and Distribution unit HI PR, Voss port, type inflector 120MM |
| (b) | Tata BS2 /BS3, AL 1616 TPR BSIII/ LC | 1337 | 264143700127/ 278243700188/ | Repair Kit Drying and Distribution |

| | | | | |
|--|--------------|------|----------|------------------------------|
| | | | P1018651 | unit consisting of |
| C. Drying And Distribution Unit HI PR, Voss Port, Type Inflator | | | | |
| (a) | A/L 2516 DPR | 2346 | B3920212 | Drying and Distribution unit |
| (b) | A/L 2516 DPR | 2347 | P1018651 | Repair kit for DDU |

(XV). DUAL BRAKE VALVE REPAIR KIT

| | | | | |
|---|----------------------|------|----------------|--|
| A. Dual Brake Valve Major Repair Kit (SCL) MSP 6/8, MSP-6/13)-Tata | | | | |
| (a) | Tata 1210 | 1749 | - | Repair kit for dual brake valve |
| (b) | Tata 1612 | 345 | 257343700001 | |
| (c) | Tata 1613 | 4345 | 257343700001 | |
| (d) | Tata 1613 TC/1212 TC | 1093 | 264143700115 | |
| (e) | Tata 2516 TC | - | 264143700115 | |
| (f) | A/Leyland CT 1613 | - | P1006451 | |
| B. Dual Brake Valve And Repair Kit Tata BS2/BS3 | | | | |
| (a) | Tata BS2 / BS3 | 4325 | 2573 4370 0112 | Dual brake valve |
| (b) | Tata BS2 / BS3 | 4345 | 2573 4370 0001 | Repair kit dual brake valve |
| C. Dual Brake Valve And Repair Kit | | | | |
| (a) | AL 2516 DPR | 2373 | B3942302 | Dual brake valve |
| (b) | AL 2516 DPR | 2349 | P1006451 | Minor repair kit for dual brake valve for B3942302 |
| (c) | AL 2516 DPR | 2350 | P1006451 | Major repair kit for dual brake valve for B3942302 |
| D. Dual Brake Repair Kit-TVS | | | | |
| (a) | AL 1616 TPR / LC | 1073 | F8836600 | Dual brake valve |
| (b) | AL 1616 TPR / LC | NS | P1024851 | Repair Kit-FBV(MSP 6/23) |

(XVI). FRONT DIAPHRAGM BRAKE CHAMBER-

| | | | | |
|--|--|------------|---|------------------------------------|
| A. Front Diaphragm Brake Chamber- Tata TC DIA-OD-167 MM & ID 120 MM | | | | |
| (a) | Tata 1613 TC/Tata 2516 TC/Ashok Leyland CT 163 | NS | MSP-25/24 | Diaphragm (SCL) NO. M843310 |
| B. Front Diaphragm Brake Chamber- Tata BS2/BS3/AL LC/TPR 1616 BS3 | | | | |
| (a) | Tata BS2/BS3 & AL 1616 TPR/LC | 4138 / 714 | 257342100137 257342100171 /F8892400 | Assy front brake chamber RH (SCL) |
| (b) | Tata BS2/BS3 & AL 1616 TPR/LC | 4139 / 713 | 2573 4210 0136 257342100172 /F8892300 | Assy front brake chamber LH (SCL) |
| (c) | Tata BS2/BS3 & AL 1616 TPR/LC | NS | P1006451 | Repair Kit for front brake chamber |
| C. Front Diaphragm Brake Chamber- AL DPR 2516 | | | | |
| (a) | A/L DPR 2516 | 1331 | B2527102 | Brake chamber-LH type20 Front |
| (b) | A/L DPR 2516 | 1332 | B2527101 | Brake chamber-RH type20 Front |
| (c) | A/L DPR 2516 | 1333 | P1019851 | Repair kit for brake chamber front |

(XVII). REAR DIAPHRAGM BRAKE CHAMBER

| | | | | |
|--|---|-------|---|---|
| A. Rear Diaphragm Brake Chamber- Tata TC DIA-OD-0179 MM & ID 152 MM | | | | |
| (a) | Tata 1613 TC/Tata 2516 TC/Ashok Leyland CT 1613 | NS | NK | Diaphragm (SCL) NO. M843330 |
| B. Rear Diaphragm Brake Chamber- Tata BS2/BS3/AL LC/TPR 1616 BS3 | | | | |
| (a) | Tata BS2/BS3 & AL 1616 Tpr/LC | 1038 | 2573 4231 0125/ 278243700174 /146 | Assy Spring brake Actuator rear |
| (b) | Tata BS2/BS3 & AL 1616 Tpr/LC | 1040 | 2573 4230 0197/ 263243910169 | Repair kit for rear spring brake Actuator consisting of |
| C. Rear Diaphragm Brake Chamber- AL DPR 2516 | | | | |
| (a) | AL DPR 2516 | 1560 | B3043718 | S/A of brake chamber-LH Rear |
| (b) | AL DPR 2516 | 1561 | B3043719 | S/A of b/chamber-RH Rear |
| (c) | AL DPR 2516 | 1819 | B1017651 | Repair kit for rear brake chamber |
| (XVIII). GRADUATE HAND BRAKE VALVE REPAIR KIT | | | | |
| A. Graduate Hand Brake Valve Repair Kit (TVS)-Tata TC | | | | MSP-3/64 |
| (a) | Tata 1210/1612/1613 | 1744A | NK | Repair kit for hand brake valve (SCL) |
| (b) | Tata 1613 TC/1212 TC | 1102 | 257342420001 | |
| (c) | Tata 2516 TC | | 257342420001 | |
| (d) | A/Leyland CT 1613 | | P-1017451 | |
| B. Graduate Hand Brake Valve And Repair Kit Tata BS2/BS3 And AL LC/TPR 1616 BS3 | | | | |
| (a) | Tata BS2/BS3 & AL 1616 Tpr/LC | 1101 | 2573 4242 0118 / 263243700112/ F8836400 | Graduated hand brake valve |
| (b) | Tata BS2/BS3 & AL 1616 Tpr/LC | 1102 | 2573 4242 0001 / 263243910171/ P1012551 | Repair kit for G.H.BV consist of See Annex Srl No. 34) |
| C. Graduate Hand Brake Valve And Repair Kit AL DPR 2516 | | | | |
| (a) | AL 2516 DPR | NS | B3943802 | Parking brake valve |
| (b) | AL 2516 DPR | NS | P1017451 | Repair kit for Graduated Hand control valve |

(XIX). AIR BOOSTER-(TVS)-TATA

| | | | | |
|-----|--------------|---|--------------|------------------|
| (a) | Tata 1210 | - | 257343700119 | Air Booster Assy |
| (b) | Tata 1212 TC | - | 257343700177 | Air Booster Assy |

(XX). UNLOADED VALVE REPAIR KIT (TVS)-TATA

| | | | | |
|-----|-----------|------|--------------|---|
| (a) | Tata 1210 | 1696 | 257343100190 | Repair kit combine unloaded valve (SCL) |
| (b) | Tata 1612 | NS | NK | |

(XXI). UJ CROSS PROPELLER SHAFT

| | | | | |
|--|--|--|--|--|
| A. UJ Cross Propeller Shaft – Gypsy | | | | |
|--|--|--|--|--|

| | | | | |
|--|--|------|-----------------------------|--|
| (a) | Maruti Gypsy – 410 | 248 | 27200M83810 | Joint assy universal |
| (b) | Maruti Gypsy – 413 | 1371 | 27200M83810 | Joint assy universal |
| B. UJ Cross Propeller Shaft – Tata 207 And M&M Bolero | | | | |
| (a) | Tata 207 | 762 | 269841100101 | U.J. Kit |
| (b) | M&M Bolero | 687 | 0038166 | Kit universal joint journal consist of |
| C. UJ Cross Propeller Shaft – Tata 407 | | | | |
| (a) | Tata 407 | 1214 | 0424100031J | UJ Cross Repair Kit |
| (b) | Tata 407 | 1195 | 265141100128 | U.J. Kit (small) |
| D. UJ Cross Propeller Shaft – Tata 407 BS3 | | | | |
| (a) | Tata 407 BS3 | | 270541120104 / 265141105123 | U.J. Kit -2 (Small) |
| (b) | Tata 407 BS3 | | 265141105127 | U.J. Kit -1 (Big) |
| (c) | Swaraj Mazda | 625 | LP01 25 190 | Joint set universal |
| E. UJ Kit Assy Tata Safari | | | | |
| (a) | Tata Safari | | 269841100101 | U.J. Kit assy |
| F. UJ Cross Propeller Shaft – Tata 1210 | | | | |
| (a) | Tata 1210 | 1443 | 0124100031J | Cross kit consist of assy cross kit |
| (b) | Tata 1612 | 4088 | 0124100031J | Cross kit consist of assy cross kit |
| (c) | Tata 1613 TC | 955 | 0124100031J | Cross kit consist of assy cross kit |
| G. UJ Cross Propeller Shaft – Tata 1613 | | | | |
| (a) | Tata 1612 | 4086 | 257641110141 | Assy Cross Repair Kit |
| (b) | Tata 1613 | 407 | 885441211612 | Assy Cross Repair Kit |
| (c) | Tata 1613 TC/Tata-1212 TC | 952 | 885441211612 | Assy Cross Repair Kit |
| (d) | Tata 2516 DPR | NK | 885441211612 | Assy Cross Repair Kit |
| H. UJ Cross Tata 1615 BS3 | | | | |
| (a) | T/1615 BS3,1613 L/Carrier, T/TLR | - | 219441100101 | Cross assy-3 |
| J. UJ Cross Tata 1212 BS3 (4x4) | | | | |
| (a) | Tata 1212 BS3 4X4 | - | 220141100114 | Assy Cross kit consists of -6 |
| K. UJ Cross Propeller Shaft-Tata 2516-Clamp Type | | | | |
| (a) | Tata 2516 TC | - | | UJ Cross kit |
| L. UJ Cross Propeller Shaft-Ashok Leyland | | | | |
| (a) | A/Leyland CT 1613 | - | P1500751 | UJ Cross kit |
| M. UJ Cross Propeller Shaft-Ashok Leyland 1616 TPR/LC BS3 | | | | |
| (a) | Ashok Leyland 1616 TPR AL L/Carrier, DPR (Big) | - | P5001551 | UJ Cross kit-2 (Big) |
| N. UJ Cross Propeller Shaft-A/ Leyland DPR | | | | |
| (a) | Ashok Leyland DPR 2516 | 1303 | P4502451/P4500951 | UJ Cross kit-2 (Small) |
| O. UJ Cross Propeller Shaft-Ashok Leyland | | | | |
| (a) | A/Leyland CT 1613 | - | P1500751 | UJ Cross kit |
| P. UJ Cross Propeller Shaft-BD-50 | | | | |
| (a) | BD-50 Dozer | 141 | 1310146101/110UJ01007 | Universal Joint Assy |
| Q. UJ Cross Propeller Shaft-BD-80 | | | | |
| (a) | BD-80 Dozer | 1104 | 150-10-11000 / 116UJ02017 | Universal Joint Assy |

| | | | | |
|---|-------------------|------|--------------|--|
| R. UJ Cross Propeller Shaft-BEML Pay Loader | | | | |
| (a) | Pay Loader | 48 | 346201010000 | Cross & Bearing |
| S. UJ Cross Propeller Shaft-Motor Grader | | | | |
| (a) | Motor Grader | 286 | 232-20-54100 | Joint Assy |
| T. UJ Cross Propeller Shaft-JCN 3DX, All Three Are Different | | | | |
| (a) | JCB 3DX/3DX Super | 5.01 | 40/300660 | Kit Spider of Propeller shaft |
| (b) | JCB 3DX/3DX Super | 5.02 | 40/300661 | Kit Spider of Propeller shaft |
| (c) | JCB 3DX/3DX Super | 3 | 914/10803 | Kit Spider of Propeller shaft |
| (d) | JCB 3DX/3DX Super | | 550/42394 | Kit-Spider 106.4x34.9 dia- F2+R2 |
| U. UJ Cross Propeller Shaft-Tata JD 315, all Are Different | | | | |
| | Tata JD 315 | - | AT178389 | U Joint Kit (Rear) |
| | Tata JD 315 | | AT178387 | U Joint Kit (Front) |
| | Tata JD 315 | 312 | TE 21792 | Kit U Joint-2 (Rear) |

(XXII). CUTTING EDGE/TOOTH POINT

| | | | | |
|--|---|------|--------------|-------------------------|
| A. Cutting Edge –BD-50, Both Differ | | | | |
| (a) | BD-50 Dozer | 506 | 102200002830 | Edge Cutting |
| (b) | BD-50 Dozer | 507 | 102200002930 | Edge Cutting |
| B. Cutting Edge –BD-80 | | | | |
| (a) | BD-80 Dozer | 2288 | 1547011313 | Edge Cutting |
| C. Cutting Edge –Motor Grader | | | | |
| (a) | Motor Grader | 518 | 252-70-12143 | Edge Cutting (3.7MM) |
| D. Tooth BEML Pay Loader | | | | |
| (a) | Pay Loader | 88.1 | 640000197502 | Bucket Tooth |
| E. Tooth-JCB 3DX/3DX Super (all are different) | | | | |
| | JCB 3DX Ftd with RB-44 TC/3DX Super Ftd with 4R- 1040/3DX Super Ftd with JCB 444 | 34 | 531/03205 | Tooth |
| | JCB 3DX Ftd with RB-44 TC/3DX Super Ftd with 4R- 1040/3DX Super Ftd with JCB 444 | | 531/3706 | Side cutter LH |
| | JCB 3DX Ftd with RB-44 TC/3DX Super Ftd with 4R- 1040/3DX Super Ftd with JCB 444 | | 531/37907 | Side cutter RH |
| F. Tooth & Tooth Point – Tata JD-315, all Different | | | | |
| | Tata JD-315 SE/V | - | HC00002 | Tooth |
| | Tata JD-315 SE/V | 664 | TF23 | Tooth Point Rear |
| | Tata JD-315 SE/V | 666 | TF23P | Pin for Tooth |
| G. Tooth & Tooth Point – Tata Hitachi EX 200 | | | | |
| | Tata Hitachi EX 200 | | TB00147 | Tooth Point |
| | Tata Hitachi EX 200 | | TE-00162 | Pin Lock |
| | Tata Hitachi EX 200 | | 2014503 | Cutter Side RH |
| | Tata Hitachi EX 200 | | 2014504 | Cutter Side LH |
| H. Tooth & Tooth Point – And Cutting Edge BE 220 | | | | |

| | | | | |
|---|----------------------|------|-------------------|---------------------|
| | BEML Hyd Excv BE 220 | | 160 BH 31646 | Tooth (Set) |
| | BEML Hyd Excv BE 220 | | CFN 15 02516 | Pin |
| | BEML Hyd Excv BE 220 | | 155 BH 12272 | Cutter LH |
| | BEML Hyd Excv BE 220 | | 155 BH 12289 | Cutter RH |
| J. Tooth & Tooth Point – And Cutting Edge BE 200 | | | | |
| | BEML W/L BE 200 | - | 377BS31394 | Corner Tooth LH |
| | BEML W/L BE 200 | | 377BS31401 | Corner Tooth RH |
| | BEML W/L BE 200 | | 375LL1567 | Tooth |
| K. Tooth & Tooth Point – And Cutting Edge BE 75 | | | | |
| | BEML Hyd Excv BE 75 | | 790 BH 31008 | Tooth Point |
| | BEML Hyd Excv BE 75 | | 790 BH 31016 | Tooth Pin |
| | BEML Hyd Excv BE 75 | | 782 BS 31023 | Cutter LH |
| | BEML Hyd Excv BE 75 | | 782 BS 31015 | Cutter RH |
| L. Tooth & Tooth Point – And Cutting Edge JCB JS 200 | | | | |
| | JCB Hyd Excv JS 200 | | 980/84766 | Tooth |
| | JCB Hyd Excv JS 200 | | 980/84765 | Adaptor Tooth |
| | JCB Hyd Excv JS 200 | | 980/84767 | Pin Locking |
| M. Tooth & Tooth Point – And Cutting Edge JCB W/Loader | | | | |
| (a) | JCB W/Loader 430Z | 88 | 1532-00-00-16-2-5 | Bucket Tooth |
| (b) | JCB W/Loader 430Z | 88.1 | 64-00-0-19-75-0-2 | Bucket Tooth |
| N. Tooth & Tooth Point – And Cutting Edge Tata Telcon W/Loader | | | | |
| | Tata Telcon W/Loader | | WD-00010 | Tooth LH |
| | Tata Telcon W/Loader | | WD--00012 | Tooth RH |
| | Tata Telcon W/Loader | | WD-0011 | Tooth Loader Bucket |

(XXIII). END BIT LH/RH

| | | | | |
|--|--|------|-----------------------------|---------------------------------|
| A. End Bit LH/RH BD-50 | | | | |
| | BD-50 Dozer | 508 | 102200001611/ 1407011170 | End Bit LH |
| | BD-50 Dozer | 509 | 102200001710/ 1407011180 | End Bit RH |
| B. End Bit LH/RH BD-80 | | | | |
| | BD-80 Dozer | 2291 | 1507021343/ 116AD51246 | End Bit RH |
| | BD-80 Dozer | 2293 | 1507021353/ 116AD51254 | End Bit LH |
| | BD-80 Dozer | 2288 | 116AD11101 | Cutting Edge |
| C. End Bit LH/RH – Motor Grader | | | | |
| (a) | Motor Grader GD-605 R2 | 521 | 232-70-52190 | Edge Side |
| (b) | Motor Grader GD-605 R2 | 521 | 232-70-52180 | Edge Side |
| D. Cutting Edge (Side Cutter) – JCB 3DX | | | | |
| | JCB 3DX Ftd with RB-44 TC/3DX Super Ftd with 4R- 1040/3DX Super Ftd with JCB 444 | 46 | 531/03206 | Side cutter single flange RH |
| | JCB 3DX Ftd with RB-44 TC/3DX Super Ftd with 4R- 1040/3DX Super Ftd with JCB 444- | 47 | 531/03207 | Side cutter single flange LH |

(XXIV). CENTRE BEARING RUBBER

| A. Centre Bearing Rubber-Tata 407 | | | | |
|--|------------------|------|-------------------------------|--|
| (a) | Tata 407 | 1202 | 265141307501 | Rubber Bearing (Prop shaft centre BRG) |
| (b) | Tata 407 BS3 | | 265141107501 | Centre Bearing Rubber |
| B. Centre Bearing Rubber-Tata 1210 | | | | |
| (a) | Tata 1210 | 1468 | 257341307504/ 257341307501 | Rubber Bearing in Support |
| C. Centre Bearing Rubber-Tata 1612 TC | | | | |
| (a) | Tata 1612 TC | 4073 | | Rubber Housing |
| (b) | Tata 1613 TC | 943 | | Rubber Housing |
| (c) | Tata 1613 TC BS2 | 994 | | Rubber Housing |

(XXV). DRAG LINK REPAIR KIT

| A. Drag Link Kit –Tata 407 | | | | |
|--|-------------------|------|--------------|---|
| (a) | Tata 407 | NS | NK | Repair kit for drag line assy |
| B. Drag Link Kit–Tata 1210 | | | | |
| (a) | Tata 1210 | 1817 | 257446000010 | Repair kit for drag line(35 DiaX 40) |
| C. Drag Link R/ Kit–Tata | | | | |
| (a) | Tata 1612 | NS | 0004600005J | Drag link repair kit |
| (b) | Tata 1613 TC | 1295 | 257446000006 | Drag link repair kit |
| D. Drag Link Repair Kit–Tata 2516 TC | | | | |
| (a) | Tata 2516 TC | - | NK | Drag link repair kit |
| E. Drag Link Repair Kit–Ashok Leyland | | | | |
| (a) | A/Leyland CT 1613 | | P2405051 | Major Repair kit Drag |
| (b) | A/Leyland CT 1613 | | P2405151 | Link (Make-Rank) |

(XXVI). CROWN/MATCH SET

| A. Crown Wheel-Gypsy | | | | |
|--|---------------------------------------|------|---|--|
| (a) | Maruti Gypsy-410 | 256 | 27300- 50880/27300- 80814 / 27300- 80812 | Pinion & Gear Set, Bevel |
| (b) | Maruti Gypsy-413 | 1384 | 27300-83832 | Pinion & Gear Set, Bevel |
| B. Crown Wheel-Tata 407 (Ratio 37:8) | | | | |
| (a) | Tata 407 | 1144 | 265135300110 | Assy Crown sheel & pinion (Orlikon) |
| C. Crown Wheel-Tata 1210 (Ratio 48:7) | | | | |
| (a) | Tata 1210 | 1376 | 3223501139/25 7335300102 | Assy Crown wheel & Tail pinion (Orlikon) |
| D. Crown Wheel-Tata 1612 (48:7, 41:7) | | | | |
| (a) | Tata 1612 | NS | 25763530126 | Crown wheel & pinion |
| (b) | Tata 1613 TC/1212 TC/Tata 1613 NTC | 914 | 261435300101 | Assy crown wheel and pinion Orlikon) |
| E. Crown Wheel-Tata 2516 Tc (48:6) | | | | |
| (a) | Tata 2516 TC | | 272535300102 | Crown wheel & |

| | | | | |
|--|-------------------|------|----------------------|-----------------------------------|
| | | | | pinion (Rear-Rear) |
| (b) | Tata 2516 TC | | 272535300103 | Crown wheel & pinion (FWD – Rear) |
| F. Crown Wheel-Ashok Leyland (Ratio (17:6)) | | | | |
| (a) | A/Leyland CT 1613 | | P4305816 | DRI Gear & Pinion Assy |
| G. Match Set – AJRR | | | | |
| (a) | AJRR | 708 | JAH 79180 | M Set of Bevel Pinion |
| H. Match Set – SCRR | | | | |
| (a) | SCRR | 101A | 9P 10P-58, 10P-61 | Match Set of spiral Bevel Pinion |

TABLE NO. 4 : COMMONALITY OF REPAIRABLE ASSEMBLIES**(I). GEAR BOX ASSY**

| S/ No | Make & Type | ISG | Part No. | Nomenclature |
|--|--------------------------|-----|--------------|----------------------|
| A. Gear Box Assy-Tata 407 | | | | |
| (a) | Tata 407 | NS | 251526010018 | Assy Gear Box |
| B. Gear Box Assy-Tata 1613 TC | | | | |
| (a) | Tata 1210 | NS | 250626010017 | GBS 30 Gear box assy |
| C. Gear Box Assy-Tata 1613 TC | | | | |
| (a) | Tata 1210/1612/1212 | NS | 250526010163 | GBS 40 Gear box assy |
| (b) | Tata 1613 TC | NS | 250526040125 | GBS 40 Gear box assy |
| D. Gear Box Assy – Tata 2516 TC | | | | |
| (a) | Tata 2516 TC | NS | 250726010128 | Assy Gear box GBS 50 |
| E. Gear Box Assy – Ashok Leyland Tipper/LC BS-II | | | | |
| (a) | A/Leyland CT 1613 | - | A1561800 | Assy of Gear box |
| F. Gear Box Assy – Ashok Leyland Dumper 2516 BS-II | | | | |
| (a) | A/Leyland Dumper 2516 | - | A1563100 | Assy of Gear box |
| G. Gear Box Assy – Ashok Leyland Tipper /LC 1616 BS-III | | | | |
| (a) | A/Leyland Tipper/LC 1616 | - | A5P16400 | Assy of Gear box |
| H. Gear Box Assy-Tata 1613/1212TC BS III | | | | |
| (a) | Tata 1613 /1212 BS3/BS-4 | NS | 269126010283 | Assy Gear box GBS 60 |

(II). WATER PUMP ASSY

| | | | | |
|---|---------------------|------|-----------------------------|---------------------------|
| A. Water Pump Assy – Maruti Gypsy-410 | | | | |
| (a) | Maruti Gypsy-410 | 159 | 17400M78311/17400-78821 | Pump assy water |
| B. Water Pump Assy-Maruti Gypsy King 413 | | | | |
| (a) | Maruti Gypsy-413 | 1229 | 17400M83003 | Water Pump Set |
| C. Water Pump Assy - Tata safari | | | | |
| (a) | Tata safari | | 278920100106 | Water pump assy |
| D. Water Pump Assy-Tata 407 | | | | |
| (a) | Tata 407 | NS | 253420100120 | Assy Water Pump |
| E. Water Pump Assy-Tata 1210 | | | | |
| (a) | Tata 1210 | 586 | 0122000201/ 252320100103 | Assy Water Pump (692 Eng) |
| F. Water Pump Assy-Tata 1612 | | | | |
| (a) | Tata 1612/Tata 1613 | 3576 | 252520100121 | Assy Water Pump |

| | | | | |
|---|--|-------|----------------------|---------------------------------|
| | | | | (697 Eng) |
| G. Water Pump Assy-Tata TC | | | | |
| (a) | Tata 1613 TC | 411 | 3283602 | Water Pump |
| (b) | Tata 2516 TC | - | 278620999959 | Water Pump |
| (c) | Tata Hitachi-EX-200 | - | 3283602 | Water Pump |
| H. Water Pump Assy-Ashok Leyland | | | | |
| (a) | A/Leyland CT 1613 | - | B7016011 | S/A Water Pump |
| J. Water Pump Assy-AMW Trailer | | | | |
| (a) | AMW Trailer | | 4094034 | Water Pump |
| K. Water Pump Assy- RB-44 TC | | | | |
| (a) | RB-44 TC with JCB 3DX | 77.3 | 48173300 | Water Pump Assy |
| L. Water Pump Assy-4R-1040 TC | | | | |
| (a) | 4R-1040 Ftd with JCB 3DX/3DX Super/PVR RM-6 | - | 4H-052 20000 | Water Pump Assy |
| M. Water Pump Assy –BD-50 Dozer & P/LDR Fitted With N-495 & 495 TC | | | | |
| (a) | N-495 Ftd with BD-50/N-495 TC Ftd with P/LDR | 159 | 316649700K/ BM-54327 | Water Pump |
| N. Water Pump Assy –BD-80 Dozer & M/GDR Fitted With N-743TC | | | | |
| (a) | N-495 Ftd with BD-80/M/GDR | 159.1 | BM-78358 | Water Pump |
| O. Water Pump Assy –DCM Toyota Bus | | | | |
| (a) | 14B DI Ftd with DCM Toyota | 156 | 1610056050A | Water Pump |
| P. Water Pump Assy –HMT Tractor 5911 | | | | |
| (a) | 5901 Ftd with Tractor | 101 | 590600009 | Water Pump Assy |
| Q. Water Pump Assy –P4 Engine | | | | |
| (a) | P4 Ftd with AJRR/BMRR/SCRR | 376 | 57746 | Water Pump Assy (High Position) |
| R. Water Pump Assy –P4 Engine | | | | |
| (a) | P4 Ftd with AJRR/BMRR/SCRR | 377 | 59651 | Water Pump Assy (Low Position) |
| S. Water Pump Assy –S4 Engine | | | | |
| (a) | S4 Ftd with AJRR/BMRR/SCRR | 377.1 | S4009908 | Water Pump Assy (High Position) |
| T. Water Pump Assy –S4 Engine | | | | |
| (a) | S4 Ftd with AJRR/BMRR/SCRR | - | L99DE00706 | Water Pump Assy (Low Position) |
| U. Water Pump Assy –Tata JD | | | | |
| (a) | Tata JD | - | 252420100103 | Water Pump Assy |

(III). FIP/PT/AC/FUEL PUMP

| | | | | |
|--|--------------------|------|-----------------------------|-------------------------------|
| A. Fuel Pump– Maruti Gypsy-410 | | | | |
| (a) | Maruti Gypsy – 410 | 135 | 15100M80020/ 15100-80000 | Pump Assy Fuel |
| B. Fuel Pump– Maruti Gypsy King-413 | | | | |
| (a) | Maruti Gypsy-413 | 1191 | 15100M830A0 | Pump Assy Fuel |
| C. Fuel Injection Pump-Tata 407 | | | | |
| (a) | Tata 407 | 151 | 9400030726/9400030547 | FIP with Governor & Feed Pump |
| D. Fuel Injection Pump-Tata 1210 | | | | |
| (a) | Tata 1210 | 206 | 9400030529/9400030462 | FIP with Governor & Feed Pump |
| (b) | Tata 1612 | 3165 | 252507100276 | ----do---- |
| (c) | Tata 1613 | 3166 | 252507100271 | ----do---- |
| E. Fuel Injection Pump-Tata TC | | | | |
| (a) | 1613 TC/1212 TC | 229 | 3931837/278607999942 | FIP Injection Pump |

| | | | | |
|--|--|-------|-----------------------|---|
| (b) | 2516 TC | - | 278607999942 | ----do---- |
| (c) | Tata Hitachi-EX-200 | - | 4080793 | ----do---- |
| F. Fuel Injection Pump-Ashok Leyland | | | | |
| (a) | Ashok Leyland CT 1613 | - | X7480500 | Rotory FIP (Mico), 97 KW, BS-II, HA6DT 12 D |
| G. Fuel Injection Pump-RB-44 TC | | | | |
| (a) | RB-44 TC Ftd with JCB 3DX | 108.3 | 9400030625 / 48130109 | Fuel Pump Assy |
| H. Fuel Injection Pump-4R-1040 TC | | | | |
| (a) | 4R-1040 Ftd with JCB 3DX/3DX Super/PVR RM-6 | - | 4H 122 10 000 | Fuel Injection Pump |
| J. PT Pump-BD-50 & Pay Loader | | | | |
| (a) | N-495 Ftd with BD-50 | 234 | AR-3879458 | PT Pump Assy (CO-193) |
| (b) | N-495 TC Ftd with P/LDR | 234.2 | AR-3879458 | PT Pump Assy (CO-750) |
| (c) | N-742 TC Ftd with BD-80 | 234.3 | AR-3879458 | PT Pump Assy (CO-494) |
| (d) | N-743 Ftd with M/GDR | 234.4 | AR-3879458 | PT Pump Assy (CO-794) |
| K. FIP DCM Toyota | | | | |
| (a) | 14B DI Ftd with DCM | 303 | 2210058550 | Fuel Injection Pump |
| L. FIP HMT Tractor 5911 | | | | |
| (a) | 5901 Ftd with HMT TR | 118 | 5908740090 | Fuel Injection Pump |
| M. FIP-HA 694 Engine | | | | |
| (a) | HA 694 Ftd with L&T 752 Vib RR/IR Vib RR/Bomag Vib RR/HA 694 TC Ftd with 50 KVA G/Set/TVRR HD85 Escort/Soil Compactor Escort | - | 4H 122 10 000 | Fuel Injection Pump |
| N. FIP - P4 Engine | | | | |
| (a) | P4 Ftd with AJRR/BMRR/SCRR | 570 | 9400030263 | Fuel Injection Pump |
| O. FIP-S4 Engine | | | | |
| (a) | S4 Ftd with AJRR/BMRR/SCRR | 570.1 | DE005234 | Fuel Injection Pump |
| P. Fuel Injection Pump-Ashok Leyland Dumper 2516 ftd with AL-HA6DT12N | | | | |
| (a) | Ashok Leyland Dumper 2516 | - | F8249300 | Fuel Injection Pump -117KW |
| Q. Fuel Injection Pump-Ashok Leyland 1616 ftd with A/L HA6ET13KN | | | | |
| (a) | Ashok Leyland 1616 | - | F7V01300 | Fuel Injection Pump |
| R. Fuel Injection Pump -JCB 3DX/4DX Super fitted with JCB 444 Eng | | | | |
| (a) | JCB 3DX/4DX Super | | 320/06602 | Fuel Injection Pump |

(IV). BRAKE MASTER CYLINDER

| | | | | |
|--|-------------------|-----|-------------|-----------------------|
| A. Brake Master Cylinder-Maruti Gypsy-410 | | | | |
| (a) | Maruti Gypsy -410 | 604 | 51100M82720 | Brake Master Cylinder |
| (b) | Maruti Gypsy -410 | 604 | 51100M82720 | Brake Master Cylinder |
| (c) | Maruti Gypsy -410 | 604 | 51100M80660 | Brake Master Cylinder |
| (d) | Maruti Gypsy -410 | 604 | 51100-80660 | Brake Master |

| | | | | |
|--|---------------------|------|--------------|-----------------------|
| | | | | Cylinder |
| B. Brake Master Cylinder-Maruti Gypsy-413 | | | | |
| (a) | Maruti Gypsy-413 | 1708 | 09200M10010 | Brake Master Cylinder |
| C. Brake Master Cylinder-Tata 407 | | | | |
| (a) | Tata 407 | 1311 | 264043100101 | Brake Master Cylinder |
| D. Brake Master Cylinder-Tata 1210 | | | | |
| (a) | Tata 1210/1612/1212 | 1646 | 257543100102 | Brake Master Cylinder |
| (b) | Tata 1212 TC | - | 257543100117 | Brake Master Cylinder |

(V). CLUTCH MASTER CYLINDER

| | | | | |
|--|---------------------------------|-----|--------------|---|
| A. Clutch Master Cylinder-Tata 407 | | | | |
| (a) | Tata 407 | 771 | 265129100118 | Brake Master Cylinder |
| (b) | Tata 2516 TC | - | 265129100118 | |
| B. Clutch Master Cylinder Assy -Tata TC | | | | |
| (a) | Tata 1613TC/Tata 1613/Tata 1613 | 681 | 261829100106 | Assy Clutch master cylinder 25.4 MM Dia |
| (b) | Tata 1212 TC | 682 | 206729100121 | Assy Clutch master cylinder 25.4 MM Dia |

(VI). SLAVE CYLINDER ASSY

| | | | | |
|---|--|-----|--------------|---------------------|
| A. Slave Cylinder Assy-Tata 407 | | | | |
| (a) | Tata 407 | 783 | 2.6512911 | Slave Cylinder Assy |
| B. Slave Cylinder Assy-Tata TC | | | | |
| (a) | Tata 1613 TC/1212 TC/Tata 1612/Tata 1613 | 688 | 251029300102 | Slave Cylinder Assy |
| C. Slave Cylinder Assy-2516 TC | | | | |
| (a) | Tata 2516 TC | - | 27522910102 | Slave Cylinder Assy |
| D. Slave Cylinder Assy-Ashok Leyland | | | | |
| (a) | Ashok Leyland | - | F7847500 | Slave Cylinder Assy |

(VII). AIR DRYER WITH UNLOADER VALVE ASSY-TATA TC

| | | | | |
|-----|-------------------|------|--------------|-------------------------------|
| (a) | Tata 1613 TC | 1105 | 264143700106 | Air Dryer with unloader valve |
| (b) | Tata 1212 TC | 1105 | 264143700106 | Air Dryer with unloader valve |
| (c) | Tata 2516 TC | - | 264143700106 | Air Dryer with unloader valve |
| (d) | A/Leyland CT 1613 | - | B3920205 | Air Dryer with unloader valve |

(VIII). FRONT SPAKE CHAMBER-TATA TC

| | | | | |
|-----|--------------|------|--------------|-------------------------------|
| (a) | Tata 1613 TC | 1045 | 257342100136 | Air Front brake chamber RH/LH |
| | Tata 1613 TC | 1046 | 257342100137 | Air Front brake |

| | | | | |
|-----|-------------------|---|--------------|-------------------------------|
| | | | | chamber RH/LH |
| (b) | Tata 2516 TC | - | 257342100136 | Air Front brake chamber RH/LH |
| | Tata 2516 TC | - | 257342100137 | Air Front brake chamber RH/LH |
| (c) | A/Leyland CT 1613 | - | F-8214700 | Air Front brake chamber RH/LH |

(IX). REAR BRAKE CHAMBER-TATA TC

| | | | | |
|-----|-------------------|------|--------------|--------------------|
| (a) | Tata 1613 TC | 1051 | 25734230089 | Rear Brake Chamber |
| (b) | Tata 2516 TC | - | 257342300189 | Rear Brake Chamber |
| (c) | A/Leyland CT 1613 | - | B-3043711 | Rear Brake Chamber |

(X). SYSTEM PROTECTION VALVE-TATA TC

| | | | | |
|-----|-------------------|------|--------------|----------------------|
| (a) | Tata 1210 | 1745 | 257343700108 | SYS Protecting Valve |
| (b) | Tata 1612 | 4202 | 257343700108 | SYS Protecting Valve |
| (c) | Tata 1613 | 4266 | 257343700108 | SYS Protecting Valve |
| (d) | Tata 1212 TC | 1085 | 257343700108 | SYS Protecting Valve |
| (e) | Tata 1613 TC | 1086 | 257343700181 | SYS Protecting Valve |
| (f) | Tata 2516 TC | - | 257343700181 | SYS Protecting Valve |
| (g) | A/Leyland CT 1613 | | B-3920202 | SYS Protecting Valve |

(XI). DUAL BRAKE VALVE -TATA TC

| | | | | |
|-----|-------------------|------|-------------------------------|------------------|
| (a) | Tata 1613 TC | 1091 | 264143700102/ 264143700110 | Dual Brake valve |
| (b) | Tata 1212 TC | 1092 | 257343700108/26214373 0101 | Dual Brake valve |
| (c) | Tata 2516 TC | | - | |
| (d) | A/Leyland CT 1613 | | - | |

(XII). GRADUATED HAND BRAKE VALVE –TATA TC

| | | | | |
|-----|-------------------|------|--------------|---------------------|
| (a) | Tata 1613 TC | 1101 | 257342420118 | Gratd H/Brake Valve |
| (b) | Tata 1212 TC | 1101 | 257342420118 | |
| (c) | Tata 2516 TC | | 257342420115 | |
| (d) | A/Leyland CT 1613 | | B-3920208 | |

(XIII). UNLOADER VALVE (TVS)-1210

| | | | | |
|-----|----------------|----|--------------|----------------|
| (a) | Tata 1210/1612 | NS | 257643100135 | Unloaded Valve |
|-----|----------------|----|--------------|----------------|

(XIV).EXHUST BRAKE VALVE-TATA

| | | | | |
|-----|-----------|------|--------------|---------------------|
| (a) | Tata 1210 | 1751 | 257343700117 | Exhaust brake valve |
|-----|-----------|------|--------------|---------------------|

| | | | | |
|-----|-----------|------|--------------|---------------------|
| (b) | Tata 1612 | 4283 | 257343700117 | Exhaust brake valve |
| (c) | Tata 1613 | 4283 | 257343700116 | Exhaust brake valve |

(XV). AIR BOOSTER (SCL)-TATA

| | | | | |
|-----|-------------------|----|--------------|-------------|
| (a) | Tata 1210 | NS | 257343700119 | Air Booster |
| (b) | Tata 1612/1212 TC | | | |

(XVI). AIR COMPRESSOR ASSY-TATA TC

| | | | | |
|-----|-------------------|----|--------------|----------------|
| (a) | Tata 1613/1212 TC | 08 | 3931897 | Air Compressor |
| (b) | Tata 2516 TC | - | 278613999915 | Air Compressor |

(XVII). WHEEL CYLINDER FRONT

| | | | | |
|--|------------------------------------|------|---------------------------|---------------------------------------|
| A. Wheel Cylinder Front/Rear-Tata 407 | | | | |
| (a) | Tata 407 | 1287 | 265142300161 | Assy wheel Cyl (19.05 MM Dia) (BI) |
| B. Wheel Cylinder Front-Tata 1210 | | | | |
| (a) | Tata 1210/Tata 1613TC/Tata 1212 TC | 1498 | 257542120101/257342120102 | Wheel Cyl with Circlip (44.45 MM B.I) |

(XVIII). WHEEL CYLINDER FRONT

| | | | | |
|---|------------------------|------|--------------------------|------------------------------------|
| A. Wheel Cylinder Assy Rear-Maruti Gypsy | | | | |
| (a) | Maruti Gypsy-410 | 636 | 53401M-83040/53401-83040 | Cylinder Assy Rear Wheel RH |
| (b) | Maruti Gypsy-413 | 1744 | 53401M-83310 | Cylinder Assy Rear Wheel RH |
| B. Wheel Cylinder Assy Rear-Maruti Gypsy | | | | |
| (a) | Maruti Gypsy-410 | 637 | 53402M-89040/53402-83040 | W Cyl Rear Wheel LH |
| (b) | Maruti Gypsy-413 | 1745 | 53402M-83300 | W Cyl Rear Wheel LH |
| C. Wheel Cylinder Assy Rear-Tata 1210 | | | | |
| (a) | Tata 1210/1612/1212 TC | 1592 | 257542320102 | Wheel Cyl with Circlip (50 MM Dia) |

(XIX). STEERING GEAR BOX

| | | | | |
|---|------------------------|------|---------------------------|---------------------|
| A. Steering Gear Box Assy- Tata 407 | | | | |
| (a) | Tata 407 | 1511 | 265146200118/265146200101 | Assy STG gear box |
| B. Steering Gear Box (Mechanical)-Tata | | | | |
| (a) | Tata 1210/Tata 1613/AM | NS | 257446200101 | Assy Steering G/Box |
| (b) | Tata 1612/Tata 1613 | 4375 | 257446200115 | Assy Steering G/Box |
| C. Steering Gear Box (Power Steering) Make-ZF-Tata 2516 TC | | | | |
| (a) | Tata 2516 TC | - | 257346100144 | Steering Gear Box |
| D. Steering Gear Box (Power Steering) Make-Rane-A/Leyland | | | | |
| (a) | A/Leyland CT 1613 | - | F7463500 | Power STG Gear Box |

TABLE NO. 5 : COMMONALITY OF LEAFS SPRINGS AND ACCESSORIES**(I). LEAF SPRINGS ASSY/MAIN LEAF**

| S/ No | Make & Type | ISG | Part No. | Nomenclature |
|--|--|------|-----------------------------------|--------------------------------|
| A. Leaf Spring Assy Front- Gypsy | | | | |
| (a) | Maruti Gypsy -410 | 455 | 41110M80031 | Spring Assy Front |
| (b) | Maruti Gypsy-413 | 1571 | 41110M80031 | Spring Assy Front |
| B. Leaf Spring Assy Rear- Gypsy | | | | |
| (a) | Maruti Gypsy -410 | 509 | 41310M80350 | Spring Assy Rear RH/RH |
| (b) | Maruti Gypsy-410 | 510 | 41310M80360 | |
| (c) | Maruti Gypsy -413 | 1624 | 41310M80350 | |
| (d) | Maruti Gypsy -413 | 1625 | 41310M80360 | |
| C. Main Leaf Spring Tata 207 BS2 | | | | |
| (a) | Tata 207 BS2 | 569 | 8854 3201 0207/ 2826 3210 0102 | Assy Front Spring |
| (b) | Tata 207 BS2 | 602 | 41310M80360 | Assy First leaf with bush Rear |
| D. Main Leaf Spring front Tata 407 BS2/BS3 | | | | |
| (a) | Tata 407 BS2/BS3 / Force Motor Excle-4 | 840 | 265132100131 | Assy First leaf with bush |
| E. Main Leaf Spring Rear-Tata 407 | | | | |
| (a) | Tata 407 BS2/BS3/ Force Motor Excle-4 | 908 | 265132400129 | Main Leaf with Bush |
| F. Main Leaf Spring Front-Tata All Model | | | | |
| (a) | Tata 1210 | 1110 | 206032107127 | Main Leaf with Bush |
| (b) | Tata 1612/Tata 1613 | 3803 | 257532100104 | |
| (c) | Tata 1613 TC | 734 | 257532100117 | Main Leaf with bush (Frt) |
| (d) | Tata BS2/BS3 | 734 | 2575 3210 0117 | |
| G. Main Leaf Spring Rear-Tata All Model | | | | |
| (a) | Tata 1210 | 1110 | 257332400103 | Rear spring main leaf |
| (b) | Tata 1612/Tata 1613 | 3867 | 3423241011 | |
| (c) | Tata 1613 TC | 783 | 257532410102 | |
| (d) | Tata BS2/BS3 | 783 | 2575 3241 0102 | |
| H. Main Leaf Spring front -Tata 2516 Dumper | | | | |
| (a) | Tata 2516 TC | - | 278232100107 | Ist leaf with bush |
| (b) | Ashok Leyland DPR 2516 | 1863 | P3232445 | Main Leaf (For F4512110) Frt |
| I. Main Leaf Spring Rear (Live & Dead Axle)-Tata Dumper | | | | |
| (a) | Tata 2516 TC | - | 27823240107 | Assy Ist leaf with bush |
| (b) | Ashok Leyland DPR 2516 | 1928 | P3232945 | Main Leaf Rear (I&II) |
| J. Main Leaf Spring Front –Ashok Leyland CT 1613 | | | | |
| (a) | Ashok Leyland CT 1613 | - | P-3219745 | Main Leaf |
| (b) | A/Leyland Tpr 1616 BS / LC | 873 | P3248545 | Main Leaf Front |
| K. Main Leaf Spring Rear –Ashok Leyland CT 1613 | | | | |
| (a) | Ashok Leyland CT 1613 | - | P-3220245 | Main Leaf |
| (b) | A/Leyland Tpr 1616 BS / LC | 893 | P3254245 | Main Leaf Rear |

(III). SECOND LEAF

| | | | | |
|---|--------------|-----|----------------|--------------------|
| A. Second Leaf Spring Tata 207 BS2 | | | | |
| (a) | Tata 207 BS2 | 604 | 2654 3240 7184 | Second Leaf Rear-2 |

| | | | | |
|--|---------------------------|---------------|--------------|-----------------------------------|
| B. Second Leaf Spring Front-Tata 407 BS2/BS3 | | | | |
| (a) | Tata 407 | 841 | 265132107151 | Second Leaf |
| (b) | Tata 407 BS2/BS3 | 910 | 265132407130 | Second Leaf |
| C. Front Second Leaf-Tata | | | | |
| (a) | Tata 1210 | 1116 | 206032107128 | Front 2 nd leaf spring |
| (b) | Tata 1612/Tata 1613 | 3803 | 3423210712 | |
| (c) | Tata 1613 TC | 734 | 257532107183 | |
| D. Rear 2nd Leaf- Tata | | | | |
| (a) | Tata 1210/1613 TC | 1188 | 257532407102 | Rear Spring 2 nd Leaf |
| (b) | Tata 1612/Tata 1613 | 3874 | 3423241012 | |
| E. Second Leaf Spring Front-Tata Dumper | | | | |
| (a) | Tata 2516 TC | - | 278232107120 | Second Leaf |
| (b) | A/Leyland DPR 2516 | 1864 | P-3232545 | Second Leaf (For F4512110) Frt |
| F. Second Leaf Spring Rear (Live Axle & Dead Axle)- Tata Dumper | | | | |
| (a) | Tata 2516 TC | - | 278232407119 | Second Leaf |
| (b) | A/Leyland DPR 2516 | 1930/ 1935 | P-3233545 | Second Leaf Rear (I&II) |
| G. Second Leaf Spring Front-Ashok Leyland | | | | |
| (a) | A/Leyland CT 1613 | - | P-3219845 | Second Leaf |
| (b) | A/Leyland Tpr 1616 BS3/LC | 868 | P-3248645 | Second Front |
| H. Second Leaf Spring Rear-Ashok Leyland | | | | |
| (a) | A/Leyland CT 1613 | - | P-3220345 | Second Leaf |
| (b) | A/Leyland Tpr 1616 BS3/LC | 894 | P-3254345 | IInd Leaf Rear |

TABLE NO. 6 : COMMONLITY OF HUB BRG AND SEALS

(I). HUB BRG FRONT

| Sr. No | Make & Type | Size | Nomenclature |
|---|-------------|--------------------------------------|-------------------------|
| A. Hub Bearing Front – M/Gypsy 410/413 King | | | |
| (a) | Inner | LM-300849A or CAN-75414 or LM-300811 | Front Hub Bearing Inner |
| (b) | Outer | | Front Hub Bearing Outer |
| B. Hub Bearing Front – Tata 407 | | | |
| (a) | Inner | 33111 | Front Hub Bearing Inner |
| (b) | Outer | 32207 | Front Hub Bearing Outer |
| C. Hub Bearing Front– Tata 1210 | | | |
| (a) | Inner | 1888400 or 565/562 | Front Hub Bearing Inner |
| (b) | Outer | 32308 or 4X4-SKF-497 | Front Hub Bearing Outer |
| D. Hub Bearing Front – Tata 1613TC | | | |
| (a) | Inner | 13640 | Front Hub Bearing Inner |
| (b) | Outer | 32214 | Front Hub Bearing Outer |
| E. Hub Bearing Front– Tata 2516 Dumper | | | |
| (a) | Inner | 12104 X 2 | Front Hub Bearing Inner |
| (b) | Outer | | Front Hub Bearing Outer |
| F. Hub Bearing Front – A Leyland 2516 Dumper | | | |
| (a) | Inner | 6379 | Front Hub Bearing Inner |
| (b) | Outer | 535 | Front Hub Bearing Outer |

(II). HUB BEARING REAR

| | | | |
|---|-------|--------|------------------------|
| A. Hub Bearing Rear – M/Gypsy 410/413 King | | | |
| (a) | Inner | 357222 | Rear Hub Bearing Inner |
| (b) | Outer | | Rear Hub Bearing Outer |
| B. Hub Bearing Rear – Tata 407 | | | |
| (a) | Inner | 33111 | Rear Hub Bearing Inner |

| | | | |
|--|-------|-----------------|------------------------|
| (b) | Outer | 32210 or 331257 | Rear Hub Bearing Outer |
| C. Hub Bearing Rear– Tata 1210 | | | |
| (a) | Inner | 32216A | Rear Hub Bearing Inner |
| (b) | Outer | 32213 | Rear Hub Bearing Outer |
| D. Hub Bearing Rear – Tata 1613TC | | | |
| (a) | Inner | 33019 | Rear Hub Bearing Inner |
| (b) | Outer | 32214 | Rear Hub Bearing Outer |
| E. Hub Bearing Rear – Tata 2516 Dumper | | | |
| (a) | Inner | RF/RR-683/672 | Rear Hub Bearing Inner |
| (b) | Outer | RF/RR-32217 | Rear Hub Bearing Outer |
| F. Hub Bearing Rear – A Leyland 2516 Dumper | | | |
| (a) | Inner | 683 | Rear Hub Bearing Inner |
| (b) | Outer | 580 | Rear Hub Bearing Outer |

(III). HUB OIL SEAL FRONT

| | | | |
|--|-------|---------------|--------------------------|
| A. Hub Oil Seal Front – M/Gypsy 410/413 King | | | |
| (a) | Inner | 50-68-7/9Z | Front Hub Oil Seal Inner |
| (b) | Outer | | Front Hub Oil Seal Outer |
| B. Hub Oil Seal Front – Tata 407 | | | |
| (a) | Inner | 75-100-10/11 | Front Hub Oil Seal Inner |
| (b) | Outer | | Front Hub Oil Seal Outer |
| C. Hub Oil Seal Front – Tata 1210 | | | |
| (a) | Inner | 4X4-95-125-13 | Front Hub Oil Seal Inner |
| (b) | Outer | | Front Hub Oil Seal Outer |
| D. Hub Oil Seal Front – Tata 1613TC | | | |
| (a) | Inner | 130-105-14/13 | Front Hub Oil Seal Inner |
| (b) | Outer | | Front Hub Oil Seal Outer |
| E. Hub Oil Seal Front – A Leyland 2516 Dumper | | | |
| (a) | Inner | 675X600X50 | Front Hub Oil Seal Inner |
| (b) | Outer | | Front Hub Oil Seal Outer |

(IV). HUB OIL SEAL REAR

| | | | |
|---|---------------------------|------------------|-------------------------|
| A. Hub Oil Seal Rear– M/Gypsy 410/413 King | | | |
| (a) | Inner | 48-62-9 | Rear Hub Oil Seal Inner |
| (b) | Outer | | Rear Hub Oil Seal Outer |
| B. Hub Oil Seal Rear – Tata 407 | | | |
| (a) | Inner | 75-95-13 | Rear Hub Oil Seal Inner |
| (b) | Outer | | Rear Hub Oil Seal Outer |
| C. Hub Oil Seal Rear – Tata 1210 | | | |
| (a) | Inner | 110-140-15 | Rear Hub Oil Seal Inner |
| (b) | Outer | | Rear Hub Oil Seal Outer |
| D. Hub Oil Seal Rear – Tata 1613TC | | | |
| (a) | Inner | 145-120-15 | Rear Hub Oil Seal Inner |
| (b) | Outer | | Rear Hub Oil Seal Outer |
| E. Hub Oil Seal Rear – A Leyland 2516 Dumper | | | |
| (a) | Inner | RF/RR-170-135-15 | Rear Hub Oil Seal Inner |
| (b) | Outer | | Rear Hub Oil Seal Outer |
| F. Hub Oil Seal Rear – A Leyland 2516 Dumper | | | |
| (a) | Inner | 675X600X50 | Rear Hub Oil Seal Inner |
| (b) | Outer | | Rear Hub Oil Seal Outer |
| G. Hub Oil seal – Hero Honda Super Splendor | | | |
| (a) | Hero Honda Super Splendor | 91255169000RS | Oil Seal 30x42x11 |

TABLE NO. 7 : COMMONLITY OF FAN BELTS (V BELT)

| S/No | Fan Belt No. | Suitable / Applicable For |
|------|------------------------------|--|
| 1 | 1185 or 1195 or A-45 or 1204 | T/407 4X4, Water Pump Kirloskar (HA 294) |
| 2 | 1181 or PK1210 | DCM Bus |
| 3 | 2537 or TW 1280 | DI 697 Tata, JCB 3DX Super |
| 4 | C-47 or 178570 | Water body P/L |
| 5 | A-42 or 178622 | Water body D50, Gen Set 11.25 KVA (3YDA) |
| 6 | B-47 or 3040448 | (Alternator) P/L, D-50 |
| 7 | DW 1450 | JCB P/L, DI 692 Tata, JD 315J, CPS 260 |
| 8 | 12/25 LA or 1235 | T/407 4X2 |
| 9 | 178567 or C72 | Water body D80, Alternator |
| 10 | 4K 0815 or 5138 | M/G 413 |
| 11 | 647630DS4 or B-43 | M/Grader W/Body, W/Jeep, Gen Set 30KVA (Greaves), W/Set 3 YDA Engine/Surac welding gen set |
| 12 | 8PK 1422 (Ribbed) | Tata 6BT |
| 13 | A-130 | CAR NE |
| 14 | A-39 | CAR NE, Ambassador new model (AC BELT) |
| 15 | 222AV10X 1110 | L&T 450 |
| 16 | A-50 or A-51 | L&T 752, IR, Bomang, JCB (1040), Paver BG-220 |
| 17 | A-52 or 1357 | SCRR, BMRR, (S4 Eng), 50 KVA G/Set |
| 18 | A-56 | 50 KVA G/Set |
| 19 | B-47 | S/C Laxmi |
| 20 | B-49 or B-51 | S/C Marshal & Sisco W/Set (P3) |
| 21 | B-57 | JCB RB 44 TC Eng |
| 22 | C-43 | Swaraj Mazda Bus |
| 23 | ECA-770 | M/G 410 |
| 24 | XV-15X1325 | A/Leyland 1613 , Tata 1613 TC with 697 TC Eng |
| 25 | 1000 | Force Excel 1 Ton |
| 26 | AX 60A 1560 | 11.25 KVA Gen Set with HA 294 Eng |
| 27 | B-55 or 1440 | BD-50 with BEML Eng |
| 28 | AV 13X850 | A/Leyland 2516 Taurus Alternator |
| 29 | AV 13 X 1580 | A/Leyland 2516 Taurus Water Body |
| 30 | V-Belt A66 | Bin feeder Motor Fan Belt of WMM Plant 60TPH Make Apolo (12 Nos) |
| 31 | V-Belt A65 | Pugmill motor fan belt of WMM Plant 60TPH Make Apolo (04 Nos) |
| 32 | V-Belt A55 | Conveyor Motor Fan Belt of WMM Plant 60TPH Make Apolo (03 Nos) |
| 33 | V-Belt A56 | Gathering Motor fan Belt of WMM Plant 60TPH Make Apolo (03 Nos) |
| 34 | V-Belt A64 | Vib Screen Motor Fan belt of WMM Plant 60TPH Make Apolo (02 Nos) |
| 35 | X0301650 | Fan Belt A/Leyland 1616 |

TABLE NO. 8 : COMMONLITY OF OTHER SEALS & BEARINGS AS PER APPLICATION

(I). OIL SEALS

| S/No | Seal Size | Application | Type of Eqpt |
|------|-----------|---------------------------------|-----------------|
| 1 | 25X45X10 | MAIN CLUTCH PUMP, STEERING PUMP | BEML BD80 |
| | 35X55X11 | HYDRAULIC PUMP | BEML BD80 |
| | 105X80X12 | CRANK SHAFT OIL SEAL | BEML BD80 |
| 2 | 30X50X11 | CLUTCH BOOSTER PUMP, HYDIC PUMP | BEML BD50 |
| | 35X55X11 | BOOSTER | BEML BD50 |
| | 110X85X13 | MAIN CLUTCH HOUSING SEAL | BEML BD50 |
| | 100X75X13 | GEAR BOX OIL SEAL | BEML BD50 |
| | 69X43X12 | TRACK FRAME OIL SEAL | BEML BD50 |
| 3 | 90X68X13 | TAIL PINION SEAL | TATA 1612/1613 |
| 4 | 75X58X12 | OIL SEAL | GBS-50 GEAR BOX |

| | | | |
|----|------------|---------------------------------|-------------------------|
| | 38X56X7 | RETURNING OIL SEAL | GBS-50 GEAR BOX |
| 5 | 20X35X10 | STEERING PUMP, HYDRAULIC PUMP | MOTOR GRADER GD 605 R-2 |
| | 25X40X8 | HYDRO SHIFT TRANSMISSION PUMP | MOTOR GRADER GD 605 R-2 |
| 6 | 30X41X6.5 | JCB TWIN PUMP | JCB 3DX EXCV |
| 7 | 52X72X12 | OIL SEAL | BMRR |
| 8 | 212X287X37 | MAT CH SET OIL SEAL | SCR |
| | 50X70X10 | CLUTCH HOUSING OIL SEAL LH | SCR |
| | 140X110X13 | HUB OIL SEAL LH | SCR |
| | 250X325X37 | HUB OIL SEAL LH | SCR |
| | 135X160X13 | REAR WHEEL L/ SIDE OIL SEAL | SCR |
| 9 | 115X140X16 | MAIN CRANK OIL SEAL | HA 694 ENGINE |
| | 65X85X30 | TIMING OIL SEAL | HA 694 ENGINE |
| 10 | 10X120X14 | OIL SEAL HOUSING | RB-44 TC ENGINE |
| | 60X80X10 | OIL SEAL GEAR CASING | RB-44 TC ENGINE |
| 11 | 90X110X128 | FRONT WALL COVER PLATE OIL SEAL | 160 KVA GEN SET |

TABLE NO. 9 : COMMONLITY OF SELF STARTER ASSYS

| Sr. No | Model of Self Starter/ Starter Motor | Suitable for | Type of Engine |
|--------|---|--|---|
| 1 | DELCOREMY 42 MT 24V Part No. 4128280804 | #Dozer BD80 /D155 OF BEML LTD | BEML BS6D-125-1 = BD 80 D 155 A1 –CUMMINS ENG |
| 2 | DELOREMY 12T 24V | Dozer BD50 | BEML BS6D-105-1 |
| 3 | GBS5 24V Make Lucas | AL Dumper 2516, JCB W/Loader, Dozer D50 | AL-HA6DT12N, ALU 411, N495C |
| 4 | 3SM 127 12V, Part No. 26925162A Make- Lucas | TVRR, JCB 3DX, S/Crusher & JS 80 | HA 694, KIR 1040, RB 44 |
| 5 | 6M14 12V, Part No. 26925113H Make Lucas | Tata JD 315, Tata Hitachi EX -70, Tata 407 | Tata 497 |
| 6 | 8M14 24V, Part No. 26024480A Make -Lucas | Tata TPR/LC BSIII | Tata Cummins 6BT |
| 7 | 2SM 127 12V, Part No. 26925225A Make- Lucas | Tata TPR/LC/WT BSII | Tata Cummins 6BT |
| 8 | 2SM 114 12V, Part No. 26925062J Make-Lucas | Road Roller/Gen Set 11.25 KVA | S4, KIR EW24 |
| 9 | 3SM 114 24V, Part No. 26025200A Make-Lucas | Tata Tpr/LC/Tata Bus 1510/Tata WT (24V) (BS-III) | Tata 697 |
| 10 | HD 10, 12V Part No. 26925296 make-Lucas | Tata TPR/LC/WT (BSII) | Tata 697 |
| 11 | 9M14 24V Lucas, Part No. 26024347B | AL TPR/LC 1616 &1613 | ALU WO 4D / H6ET13K |
| 12 | BOSCH F002G20551 12V | JCB JS 80/Genset/30KVA/62.5 KVA/Escort Crane/ paver Finisher | 4R 1040 / HA 494 |
| 13 | 5SM114-12V-2.2KW, Part No. 26925107A Make-Lucas | S/Mazda Bus | SLTC T-3500 |
| 14 | | M/Gypsy King | 413 |
| 15 | 7M14 24V Make-Lucas | BEML BE 220 | BEML BS6D-105-1 |
| 16 | 7M14 24V, Part No. 26024055 make-Lucas | Tata Hitachi EX 200 | Tata Cummins 6BT |

Note :- Self starter of BD 80 can be used in BD50 after pinion change.

TABLE NO. 10 : COMMONALITY OF ALTERNATOR ASSYS

| Sr. No | Model of Alternator | Suitable for | Type of Engine |
|--------|---|---|--------------------------|
| 1 | 2SA23 Lucas 45A 24V Part No.26021497/ 26021197 | Dozer D50/ 80 | BEML |
| 2 | SA-28 Lucas 55A 24V Part No 26021330 | JCB Wheel Loader A/L DPR 2516 | L62N & ALU 411 |
| 3 | A115 12V Lucas part No. 26021292 | TVRR, JCB 3DX, S/Crusher | HA 694, Kir 1040R, RB 44 |
| 4 | SA 23 Lucas 45A 24V Part No. 26021162 | Tata Hitachi, Tata Tpr/LC BSIII | 6BT |
| 5 | A115 Lucas 40A 12V Part No. 26021292 | Tata JD 315, T/407, T/207 BSII/III, Tata 709/712 Bus/ Gen Set 11.25 KVA/ Static Roar Roller/ Air Compressor | Tata 497/ S4 / Kir EW24 |
| 6 | HA-15 12Volts 260 | Tata Tpr/LC/WT BSII 12V | Tata 6BT/697 |
| 7 | 2GRV-Lucas 45A 24V | Tata 1613 & 1212 TC BS- III | Tata 697 |
| 8 | SA28 24Volts 55 Amp Make- Lucas | AL Tpr/LC 1616 | ALU WO 4D / H6ET13K |
| 9 | SA28 12V 75 Amp Make - Lucas | JS 80/Genset/30KVA/62.5 KVA/Escort Crane | 4R 1040 / HA 494 |
| 10 | 12V 75 AHA Make –Lukas, Part No. 26021302 | S/Mazda | SLTC T-3500 |
| 11 | 210-0147 Denco 12V/ A108 (55A) Lucas | M/Gypsy King | 413 |
| 12 | 12V75 AMP Make-Lucas | JCB 3DX/4DX Super | JCB 444 Engine |

6. Discussion and conclusion : This study is for all types of spares left all types of filters fitted to all Vehicles /Equipments/Plants of deferent manufacturers in BRO. This approach is catering to reduce the cost and space of inventory required for maintenance and repair of all fleets of Equipments. This study is done to overcome day to day crisis of requirement projection from user units e.i. Road Construction Company (RCC) , Bridge Construction Company (BCC) and Task Force (TF) etc. Due to vast range and depth of holding of Vehicle/Equipment/Plants in BRO, it is very difficult for ground staff to catch the practical inventory monitoring/control tool to overcome the problem on ground. Different Original Equipment Manufacturers (OEM) have mentioned their different part number and nomenclature which leads a continuous confusion to mechanics working on ground to identify the correct requirement of parts. Hence, this practical approach is taken and resulted in positive response from various inspecting officers and users from organisation. This further loads to further research on the topic to match time advancement with the induction of new fleet of eqpt of newer and advanced technology.

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