

"ویکسینیشن کرائیں اور کرونا ایس او پیز اپنائیں۔"



## INVITATION TO BID

**Chief Controller of Purchase, Pakistan Railways, Headquarters Office Lahore** invites sealed bids from the original manufacturers/authorize distributors/suppliers/contractors registered with Income Tax & Sales Tax Departments and who are on Active Taxpayers List of the Federal Board of Revenue for the supply against Diesel Bulletin No.Spl-34 in accordance with Single Stage-Two Envelops Procedure of Public Procurement Rules-2004.

S. No.	Tender No.	Brief description	Tender Open for response till closing date	Terms of Delivery	Bid Security Required	Cost of Bidding Documents (non-refundable)
1	19/Spl-34/1-2023	Spares for ZCU-20/30 D.E Locomotives	As given in the Bulletin (Opening start from 02-05-2024)	FOB/DAP Basis	As per tender documents	Rs. 5000/-

**Note:- There will be 'NO' Rate Negotiations**

- Bidding documents containing detailed terms and conditions, method of procurement, procedure for submission of bid, bid security, bid validity, opening of bid, evaluation criteria, clarification/ rejection of bids, performance guarantee etc are available from the office of Chief Controller of Purchase, Pakistan Railways, Headquarters Office, Lahore on written request and cash payment as shown above.
- The bids shall be submitted according to Single Stage-Two Envelop procedure of PPRA-2004. All bids received shall be opened and evaluated in the manner prescribed in bidding documents.
- The **Special Bulletin No.34** will be dispatched to approved registered firms who have deposited the annual subscription fee of Diesel Bulletin for financial year **2023-24** whereas the un-registered firms can also purchase said Diesel Electric Bulletin on cash payment from the offices of:
  - The Chief Controller of Purchase, Pakistan Railways, Headquarters Office, Lahore.
  - The District Controller of Purchase (Inspection) Pakistan Railways, Reti Line, Karachi Cantt.
  - The Assistant Controller of Stores (Diesel), Pakistan Railways, Rawalpindi.
- For further details, if required please contact District Controller of Purchase-I, Pakistan Railways, Headquarters Office Lahore (Contact # 042-99201704& Fax # 042-99203022).

**(Amna-I-Gondal)**

for Chief Controller of Purchase  
Pakistan Railways, Headquarters Office, Lahore  
Phone No.042-99201704 / Fax No.042-99203022

# PAKISTAN RAILWAYS



**OFFICE OF THE CHIEF CONTROLLER OF PURCHASE,  
PAKISTAN RAILWAYS, HEADQUARTERS OFFICE,  
EMPRESS ROAD, LAHORE**

## **BID DOCUMENTS**

**Bid No.19/Spl-34/1-2023**

**Starting from 02-05-2024**

**Procurement of material for ZCU-20/30 D.E Locomotives  
on FOB/DAP basis**

## **National Standard Bidding Documents for Procurement of General Goods**

In Pursuance of Section 27 of PPRA Ordinance, 2002 read with  
Rule 23 of Public Procurement Rules, 2004, Public Procurement  
Regulatory Authority.

# **Standard Bidding Documents for Procurement of General Goods**

**NOTE:** Section II, IV and VII, are part of this tender document and are downloadable and available on PPRA website (Link: [www.ppra.org.pk](http://www.ppra.org.pk)), Pakistan Railways Website (Link: [pakrail.gov.pk](http://pakrail.gov.pk)) or may be obtained separately from Pakistan Railways CCP office by submitting printing cost separately and Purchase orders (FOB & DAP) are downloadable and available on Railway Website (Link: [pakrail.gov.pk](http://pakrail.gov.pk))

## **PART-A-BIDDINGPROCEDURE&REQUIREMENTS**

### **Section I- Invitation to Bids**

#### **Section II- Instructions to Bidders (ITB) is downloadable on PPRA Website.**

This Section provides information to help Bidders prepare their Bids. Information is also provided on the submission, opening, and evaluation of Bids and on the award of Contracts. This Section contains provisions that are to be used without modifications.

#### **Section III- Bid Data Sheet (BDS)**

This Section includes provisions specific to procurement and to supplement Section-II, Instructions to Bidders. This section may be customized where option is available, in accordance with the requirements of the Procuring Agency.

#### **Section IV- Eligible Countries is downloadable on PPRA Website.**

This Section contains information regarding eligible countries.

#### **Section V- Technical Specifications, Schedule of Requirements**

This Section includes the details of specifications for the goods to be procured and schedule of requirements.

#### **Section VI- Standard Forms**

This Section includes the standard forms for the Bid Submission, Price Schedules, and Bid Security etc. These forms are to be completed and submitted by the Bidder as part of its Bid.

## **PART-B-CONDITIONS OF CONTRACT AND CONTRACT FORMS**

### **Section VII- General Conditions of Contract (GCC)**

This Section includes the general clauses to be applied in all the contracts. This Section contains provisions that are to be used without modifications.

### **Section VIII- Special Conditions of Contract (SCC) is downloadable on Pakistan Railway website**

This Section consists of Contract Data and Specific Provisions which contains clauses specific to this contract. This section may be customized where option is available, in accordance with the requirements of the Procuring Agency.

### **Section IX- Contract Forms**

This Section contains forms which, once completed, will become part of the Contract. The forms for Performance Security will be submitted by the successful bidder to whom Letter of Acceptance is issued, before the award of contract.

#### **Integrity Pact**

The successful bidder shall be required to furnish Integrity Pact as per the attached format.

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## **PART-A**

### **BIDDING PROCEDURE & REQUIREMENTS**

#### **SECTION I: INVITATION TO BIDS**

# PAKISTAN RAILWAYS



Office of the Chief Controller of Purchase,  
Pakistan Railways, Headquarters Office, Lahore,

For Tender No. 19/Spl-34/1-2023 Procurement of material for ZCU-20/30 D.E Locomotives

## INVITATION TO BIDS

Date: -04-2024.

This Invitation to Bids follows the Procurement Notice (PN) or Procurement Advertisement (PA) No. \_\_\_\_\_ of for the subject Procurement which appeared in [Web / Newspaper] vide dated \_\_\_\_\_, 2024.

The Procuring Agency has reserved the funds for the procurement planned during the financial year[2023-24].

It is intended that part of the proceeds of the fund will be used to cover eligible payment under the contract for the Procurement of material for ZCU-20/30 D.E Locomotives under Revenue Demand

The [Chief Controller of Purchase] now invites sealed bids from eligible Suppliers of Procurement of Material for D.E Locomotives. The bidding shall be conducted in line with the [Single Stage Two Envelope] procedure of the Public Procurement Rules 2004 and any Regulations, Regulatory Guides, Procurement Guidelines or Instructions issued by the Authority (from time to time), and is open to all potential bidders.

1. Bid security of specified value in accordance with Rule No.25. of PPRA shall be called for procurements on DAP (FOR) basis as per the ongoing practice where in Bid security is demanded from the bidders as a fixed value which is 2% of the estimated value of the item.
2. Bid Securing Declaration as per National Standard Bidding Documents approved format may be called from the bidders on Stamp Paper against the tender floated on FOB basis at the discretion of procuring agency with a view to enhance international competition and to ensure participation of the OEM.

### Provided that:

1. There shall be no exemption regarding Security deposit against any Purchase Order. All Bidders quoting on FOB as well as DAP (FOR) basis will be required to deposit 5% Security Money/Performance Guarantee against every individual Purchase Order.
2. Firms, for certain items, will however furnish upto 10% Warranty Bond in addition to 5% Security Money/Performance Guarantee against the Purchase Order placed on them.

**NOTE: BID SECURITY DECLARATION IS APPLICABLE ON FOB TENDERS ON PPRA NSBD FORMAT AND SUBMITTED ON STAMP PAPER OF RS.500 AND ATTESTED BY THE OATH COMMISSIONER.**

The original bid properly filled in, and enclosed in sealed envelope(s) must be delivered to the address [DCP-I, CCP office Pakistan Railways Headquarter Office, Lahore] at or before [10:00 AM]. The bids (or technical part of the bids as the case may be) will be opened promptly thereafter in public and in the presence of bidder's representatives who choose to attend in the opening at the [Visitor Room of CCP Office].

**Chief Controller of Purchase  
Office Pakistan Railways Headquarter Office Lahore.**

## **SECTION III: BID DATA SHEET**

## BID DATA SHEET (BDS)

The following specific data for the goods to be procured shall complement, supplement, or amend the provisions in the Instructions to Bidders (ITBs). Whenever there is a conflict, the provisions herein shall prevail over those in ITBs.

BDS Clause Number	ITB Number	Amendments of, and Supplements to, Clauses in the Instruction to Bidders
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### A. Introduction

1.	1.1	Name of Procuring Agency: [Chief Controller of Purchase, Pakistan Railways Headquarters Office, Lahore].  The subject of Procurement of material for ZCU-20/30 D.E Locomotives DAP (Delivery at place) } DCP/I/STPR/ LHR OR } DCP/I/Reti Line/KC. Period for delivery of goods: Commencement date for delivery of Goods: Immediately after signing the contract/ On As and when required basis.
2	2.1 & 2.2	Financial year for the operations of the Procuring Agency: [2022-23] Name of Project [Supply of Material for ZCU-20/30 D.E Locomotives] Name of financing institution: [Ministry of Railways] Name and identification number of the Contract: Tender No. 19/Spl-34/1-2023 for procurement of Material for ZCU-20/30 D.E Locomotives
4.	3.1	Maximum number of members in the joint venture, Consortum or association shall be: [as per PPRA guidelines]
5.	4.1	In eligible country(s) is or are [as per Section IV]
6.	4.6	Demonstration of authorization by manufacturer: [Required]

### B. Bidding Documents

7.	7.2	The number of documents to be completed and returned is one original set of tender documents and all supporting and requisite documents attached
8.	8.1	The address for clarification of Bidding Documents is [Office of Chief Controller of Purchase, Pakistan Railways Headquarter, Lahore]
	8.5	Pre-bid meeting will not be held.

### C. Preparation of Bids

9.	10.1	The Language of all correspondences and documents related to the Bid is: [English]
10.	11.1(b)	Detail of sample(s) to be submitted with the Bid are: NOT APPLICABLE
11.	11.2(b)	Characteristics must be as per specifications. Must fulfill Pakistan Railways requirements in all aspects.
12.	11.1(h)	In addition to the documents stated in ITB 11, the following documents must be included with the Bid [CNIC, GST, NTN registration certificate, ATL certificate, Authorization letter, L/P status (if required)]
13.	12.3(c)	Other procurement specific documentation requirements are: [as specified in Sample Purchase Order and/or L/C request].
14.	12.4	Spare parts required for [As per Section V]
15.	13.3(b)	The qualification criteria required from Bidders in ITB. 13.3(b) is modified as follows: [list criteria]. The Bidder is required to include with its Bid, documentation from the manufacturer of the goods, that it has been duly authorized to deliver, in Pakistan, the goods indicated in its Bid. Not Applicable
16.	15.6 15.7 (a) (iii), (iv) (optional)	For goods manufactured from within Pakistan the price quoted shall be as per BDS.



17.	15.7 (a) (i) & 15.6(b)(i) (ii), (iii) (optional) (iv), (v) (optional)	For goods offered from abroad the price quoted shall be: Not Applicable
	15.9	The price shall be fixed.
18.	16.1 (a)	For goods and related services originating in Pakistan the currency of the Bid shall be Pakistani Rupees; For goods and related services originating outside Pakistan, the Bidder shall express its Bid in Pakistani Rupees when delivered on DAP basis.
19.	16.2	For the purposes of comparison of bids quoted in different currencies, the price shall be converted into a single currency (PKR) specified in the bidding documents. The rate of exchange shall be the selling rate, prevailing on the date of opening of bids specified in the bidding documents, as notified by the State Bank of Pakistan on that day.
20.	17.1	The Bid Validity period shall be [90] days.
21.	18.1	The amount of Bid Security shall be (fixed amount as shown against each item as per PPRA Rule-25) The currency of the Bid Security shall be: PKR. <b>OR</b> Bid Securing Declaration is applicable on FOB Tenders, as per PPRA NSBD format and submitted on Stamp Paper of Rs.500 and attested by the Oath Commissioner. [as per Pakistan Railways Conditions]
22.	18.3	The Bid Security shall be in the form of Pay Order, Call Deposit Receipt, Bank Guarantee, Banker's Cheque and Demand Draft from a schedule bank of Pakistan:
23.	18.3 (c)	Other forms of security are: [Not applicable]
24.	19.1	Alternative Bids to the requirements of the Bidding Documents NOT permitted
25.	21.1	The number of copies of the Bid to be completed and returned shall be [One complete Set in original]
26.	21.2	Written confirmation of authorization are: [applicable]

#### **D. Submission of Bids**

27.	22.2 (a)	Bid shall be submitted [In the Tender Box, office of District Controller of Purchase, Pakistan Railways, Headquarters Office, Lahore.] Street address:[Abdul Hameed Bin Badees Road] Building/Plot No.[Railway Headquarters] City/Town:[Lahore]
28.	22.2(b)	Title of the subject Procurement or Project name: ITB title and No: 19/Spl-34/1-2023 for procurement of material for ZCU-20/30 D.E Locomotives Time and date for submission: 10:00 Hrs on
29.	23.1	Closing Date for Bid submission is Day: Date: Time: 10:00 Hrs

### E. Opening and Evaluation of Bids

30.	26.1	The Bid opening shall take place at: [Visitor's Room of Chief Controller of Purchase, Pakistan Railways] Street address: [Abdul Hameed Bin Badees Road] Building/Plot No.: [Pakistan Railways, Headquarters Office] Floor/Room No:[Visitor's Room]City/Town:[Lahore] Country:[Pakistan] Day: Date: Time: 10:30 Hrs
31.	32.2	The currency that shall be used for Bid evaluation and comparison purposes to convert all Bid prices expressed in various currencies is:[Pakistani Rupee]
32.	35	Evaluation Techniques Least Cost Based Selection (LCBS) After meeting the requirements of eligibility, qualification and substantial responsiveness, the bid in compliance with all the mandatory (technical) specifications/requirements and/or requisite equality threshold [as indicated in specification section 5 & SCC], and having lowest evaluated cost (or financial proposal) shall be considered highest ranked bid.
		<b><u>PAKISTAN RAILWAY'S SPECIAL REQUIREMENT/CONDITIONS OF TENDER</u></b>
	i.	I/We Tender and accept and abide by Public Procurement Rules-2004 (As amended to date) copy of which is in my possession.
	ii.	I/We further accept and abide by Pakistan Railways Standard Directions to Tenderers for sales to the Railways and Pakistan Railways Standard conditions of contract (A-3-90) (Current Edition), copies of which are in my/our possession. However, any condition/direction contained therein, lying in conflict with PPR-2004 shall have no effect to the extent it is in conflict and Public Procurement Rules shall prevail.(iii) We have read and understood general as well as special conditions of this tender and hereby undertake to abide by them fully unconditionally.
	iii.	I/We further understand that it is not open to me/us to withdraw or modify the offer made by me/us after opening of the tender and before the expiry of the tender validity period, as indicated by me/us against clause (ix) below, exception to the later beign only those modifications which are acceptable to the Railway.
	iv.	I/We further agree to comply with all orders placed on me/us by the Pakistan Railway after written notice of acceptance of my/our tender has been posted to me/us and the order so placed shall be governed by all the term and conditions of the contract.
	v.	Any amount recoverable from me/us in addition to the standing security deposited already with the Pakistan Railways may be deducted from any amount lying at my/our credit, or the same will be remitted by me/us I cash on demand.
	vi.	I/We accept to abide by all the tender conditions enclosed with this tender.
	vii.	The quotation hold good for 90 days (at least) after the due date of tender opening, I/We further agree that an acceptance issued by letter, fax or messenger within this validity period shall be binding on me/us regardless of the date of its actual receipt by me/us.
	viii.	The bid security (earnest money) shall be forfeited in the event of withdrawal of the bid/quotation by the bidder within the validity once submitted or for submitting false or incorrect t of misleading information or refuse to acceptance letter or purchase order or in case a successful bidder fails to provide the performance security/standing security or fails to return signed copy of agreement/contract/purchase order within the period specified.
	ix.	<b><u>CERTIFICATE REGARDIGN CONFIRMATION OF PAKISTAN RAILWAYS SPECIFICATION/REQUIREMENTS</u></b> I/We hereby confirm that we have read the specification/requirements/description of the goods/service floated/mentioned in this tender and after having understood them fully, undertake as under: a. To supply goods/services exactly as per Railways Specification/Requirement/Description of this tender. b. That goods will be brand new.
	x.	The successful bidders will have to deposit the security money @5% of the total value of the contract within 14 days from the date of issue of acceptance.
	xi.	Save as otherwise provided there shall be no negotiations with the bidder having submitted the lowest evaluated bid or with any other bidder. <u>Unilateral discount in prices offered voluntarily by lowest bidder</u> ; rebates or negotiations in price are not allowed under Rule 40 of Public Procurement Rules -2004.

		<b><u>SPECIFICATIONS</u></b>
	xii.	<p>i) Goods / services offered shall be brand new and hundred percent (100%) according to the specifications/description / requirements of Pakistan Railways. Bidder shall therefore take full care while quoting against an item and must have understood Railway's Specifications / Requirements given in the description before submitting bid.</p> <p>ii) In accordance with PPRA Rules-10, specification shall govern the supply of goods/services therefore no sample shall be called / accepted for evaluation of the bid. However in the case of paper and cloth items etc bidder can examine stock / standard sample to understand / comprehend Railway requirement in respect of feel, finish &amp; shade only before submitting bid. Bidders desirous to see /examine sample shall contact Senior Scale Officers of Store Depot/ Consuming Branch in this regard. Senior Scale Officers of Purchase Branch shall coordinate.</p> <p>iii) The firms are allowed to quote only LP approved local items in their favour for FOR and regular approved firms for FOB are allowed to participate. Without such approval the offers will liable to be ignored.</p>
	xiii.	<b><u>BID VALIDITY (For certain items, if required)</u></b> Bidders may note that only one rate and one place of delivery should be quoted against an item in the tender with a validity period of not less than <b>Ninety (90) days</b> , with the exception of non-ferrous metals where the validity less than <b>Ninety (90) days</b> , may also be quoted by the bidders. In case of non observance of any of these provisions, offer will be ignored straightway without making any back reference. In case of nonferrous metals and peculiar items, having volatile rates minimum bid validity may also be acceptable.
	xiv.	<b><u>DELIVERY PERIOD / SCHEDULE</u></b> <b>FOB:</b> Bidders are required to quote <b>DELIVERY PERIOD*</b> : As early as possible but not more than <b>six (06) months</b> , failing which the offer may be rejected. * Unless otherwise required vide Special Terms and Conditions. <b>FOR:</b> Bidders are required to quote <b>DELIVERY PERIOD*</b> : As early as possible but not more than <b>four (04) months</b> , failing which the offer will be rejected straightway. * unless otherwise required vide Special Terms and Conditions. In case of nonferrous metals and peculiar items, having volatile rates minimum bid validity may also be acceptable.
	xv.	Original Proforma invoice of the manufacturer / Principal must accompany with the Financial proposal, showing the full breakup indicating FOB value, sea freight as well as commission to be paid in Pak currency separately. ( FOB basis only)
	xvi.	Copy of original Proforma invoice of the manufacturer and Principal must accompany with the Technical proposal, Rates/ cost should not be indicated /revealed so to ensure the secrecy of bid (FOB Basis only)
	xvii.	Bidders are requested to strictly abide by the delivery period mentioned in the purchase order as this form the essence of the contract. If the firm fails to supply the material by stipulated date, terms and conditions of the contract (under which all rights are reserved) will be enforced without any correspondence and without prejudice.
	xviii.	Bids with alternate offer against an item shall be ignored/ rejected straightway.
	xix.	Bidders will certify that cost of the goods/ services given in the offer is realistic, calculated and based on current market price, failing which the offer will be ignored. Fair price certificate shall be required, where response to a tender inquiry will be poor or a single offer will be received or rate received will otherwise consider to be on the higher side the Fair Price certificate ( <b>as per specimen at Page- 7</b> ) shall be demanded from the bidder to ensure the reasonableness of the quoted price.
	xx.	The FOR rates are to be quoted free delivery Storespura or P.R. Stores Depot, Karachi Cantt inclusive of Government Tax and Duties and also other charges. The rates quoted shall be firm and final and not subject to any variation whatsoever. In case of any increase/ decrease in Government Taxes/ Duties, no increase / decrease in rates shall be permissible. Clause-22 (a) of P.R.S Conditions of Contract (No.A-3-90) shall become applicable only if complete breakup of the rate quoted is called for and accepted by the Railways. (FOR Basis only).
	xxi.	<b>INSPECTION OF MATERIAL:</b> Inspection of the material will be carried out by District Controller of Purchase (Inspection), Pakistan Railways, Moghulpura or District Controller of Purchase (Inspection), Pakistan Railways, Reti Line Karachi Cantt. The material will have to be delivered by the supplier with his own arrangements and expenses.( FOR basis only)
	xxii.	The foreign suppliers must submit a certificate along with their quotations to the effect that the rates quoted by them are not in any way higher than normal export prices on worldwide basis. ( FOB basis only)
	xxiii.	<p>i) The bidders are informed that offers would be compared on CFR basis, but the purchase orders shall be placed on FOB basis, with restriction to ship material through vessels owned or chartered by PNSC only on "Freight to Pay Basis" which would be paid by DCOS/Shipping Karachi in Pakistan currency on arrival of vessel at Karachi Port. The firm shall submit PNSC Certificate regarding Sea Freight and PIA Certificate in case of Air Freight for Railway material, failing which Pakistan Railways will be at liberty to evaluate and compare the bid(s) as per practice in vogue.</p> <p>ii) In case, the actual freight charged by PNSC is excess than PNSC Certificate submitted by bidder alongwith his bid, the excess freight /additional freight will be paid/recovered from Supplier/Local Agent.</p>
	xxiv.	The bidders must supply / furnish the following documents/information along with technical proposal. (FOB basis only) <p>i) PNSC's Freight Certificate for Railway material.</p> <p>ii) Authority letter (in original) from the Principal in favour of the bidder / local agent to quote against this tender.</p> <p>iii) Proforma Invoice (in original) from the manufacturers / Principal.</p> <p>iv) Warranty Certificate (in original) from the manufacturer.</p> <p>v) Authority letter (in original) from the manufacturer in favour of the Principal to quote against this tender.</p> <p>vi) Warranty Certificate (in terms of performance warranty indicated in the specification, if any) (in original) from the manufacturer.</p> <p>vii) Port and Date of shipment.</p> <p>ix) Weight, Volume and dimensions and other details of the consignment / shipment.</p>
	xxv.	The supplier should state a single definite port of shipment. (FOB basis only)

	xxvi.	Contractors are required to offer rates inclusive of all taxes/charges																												
	xxvii.	Contractors are required to quote for full tender quantity. Quantity variation by the contractors will make the offer liable to be ignored. However quantity variation on account of standard packing shall be permissible																												
	xxviii.	<b>INTEGRITY PACT</b> Procurements exceeding Rs.10 Million shall be subject to integrity pact (as per specimen at Page -10), which must be duly signed by the supplier while submitting quotation																												
	xxix.	If it is a gazatted holiday on any of the fixed opening dates, the next working day will be considered an opening date.																												
	xxx.	<b>PRICE PREFERENCE FOR DOMESTICALLY MANUFACTURED GOODS.</b> Price preference in Pak Rupees will be accorded to the bidders tendering for engineering goods produced in Pakistan as per PPRA Rule No.24 and MOR Letter No. 53-8/2014-S dated 26.01.2017 provided that:- a) The saving in foreign exchange is not less than the amount of price preference and It is ensured that in each case of price preference, the total import requirements for producing the supplied tendered for locally manufactured item has been duly indicated by the bidders with complete price breakup																												
	xxxi.	In pursuance of Rule-19 of PPRA-2004, it is brought to the notice of bidders that "while finalizing the tender cases or after placement of purchase orders what so ever situation is warranted, in case of default by firms, Pakistan Railways reserve the rights to forfeit the bid security/security money/standing security/any outstanding amount even of their sister concern firm (if any) and the firm as well as their sister concern firm (if required) may also be debarred for doing business or black listed as per PPRA Rule No.2 & 19.																												
	xxxii.	I have, read, understood and undertake to abide the contents of the clause that: "Firm(s) who if entered into litigation during the course of finalization of tender to spoil such process then their bid security will be forfeited. Furthermore, if any firm enters into litigation after placement of purchase order in any regard, the amount deposited available at that stage shall be forfeited and purchase order cancelled. Such firm(s) thereafter, will have no right to prefer an appeal to any forum or court of law, breaching to it shall render him to be debarred from participation in future tender(s) of any item(s).																												
	xxiv.	<b>PACKING MATERIALS</b> <b>FOB:</b> i) All packing cases, containers and other similar material unless otherwise agreed shall be supplied by the seller free of charge and will not be returned. Every package/packing shall be clearly marked with seller's name, consignee's name and address and gross weight and shall contain a packing note showing its content in detail. The seller will be held responsible for the stores being sufficiently and properly packed so as to ensure their safe arrival at destination. ii) Suppliers are required to ensure adequate packing of the material/shipment strictly in accordance with the packing list/invoices, failing which they will be responsible for the consequential extra duties and charges on that account. The protection against attack by sea water and also to withstand rough handling during sea or rail road transit is to be ensured by the seller through adequate packing of the material/shipment. b) The tenderer should give complete information such as total FOB value, weight and measurement of the packages for freight assessment to the PNSC Karachi. (FOB basis only) <b>FOR:</b> Packing of the material must comply with international standards and practices.																												
	2.	<b>All the bids shall be evaluated as per following criteria in line with Rule 23(2) of the Public Procurement Rues 2004.</b>																												
	i.	Criteria for technical evaluation shall be technical suitability/acceptability of the bid. It shall be based on reliability and durability of the offered item, performance record of the previous supply, approval of the Chief Mechanical Engineer/Loco (pre-qualification) after successful test & trial. Any supplier/firm claiming to be equivalent will have to provide proof for the same in terms of certificates and performance reports etc.																												
	ii.	Offer by firm other than OEM, or not approved by OEM, or not prequalified/approved by Chief Mechanical Engineer/Loco PR Head Quarter Lahore for item, after successful test & trial may lead to disqualification of bid.																												
	iii.	Purchase Order/Contract will be awarded to the most advantageous bidder.																												
	3.	<b>Check list for Bid evaluation (FOB basis)</b>																												
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	vii.	Is the bid computer/Machine typed and free from overwriting, erasing and correction?		
	viii.	Has the bidder furnished (with Technical Proposal) PNSC's Freight Certificate for Railway Material?		
	ix.	Has the bidder indicated (with the Technical Proposal) weight, volume and dimensions of the consignment?		
	x.	Has the bidder attached (with the Technical Proposal) Proforma invoice (in original) of their "manufactures"/"principal"? Rate/Cost should not be indicated/revealed in copy of Proforma Invoice attached/enclosed with Technical Proposal.		
	xi.	Has the bidder attached (with Financial Proposal) Proforma invoice (in original) of their "Manufacturers"/"Principal"?		
	xii.	Has the bidder attached (with Technical Proposal) authority (in original) from their Principal in favour of the bidder to quote against this tender?		
	xiii.	Has the bidder attached (with Technical Proposal) warranty certificate (in original) from the manufacturer?		
	xiv.	Has the bidder submitted (with Technical Proposal) Authority letter from the Manufacturer in favour of the Principal to quote against this tender?		
	xv.	Has the bidder submitted (with Technical Proposal) Warranty Certificate (in terms of performance warranty indicated in the specifications) (in original)?		
	xvi.	Has the bidder quoted for full tendered quantity?		
	xvii.	Has the bidder submitted the tender bid in original alongwith receipt issued by HC/EC?		
	xviii.	Has the bidder indicated the Sale Tax Registration Number and National Tax Number?		
	xix.	Is the bidder on Active Tax Payer List (ATL) of FBR?		
	xx.	Has the bidder numbered all the documents including the bid technical literature, drawings, or any documents, with a reference in the signed Index placed on the top of bid?		
	xxi.	Is every page of the bid including bidding documents is signed and stamped?		
	xxii.	Does the bid contain completed bidding documents (prescribed) i.e. having all the pages of prescribed/duly approved bidding documents and whci are duly filled, signed and stamped (N.B: Literature, Annexure, Letters etc, attached with the prescribed documents must be duly stamped and signed by the		
	<b>NOTE</b>	<b>I/We hereby confirmed that we have read and understood fully the Evaluation Criteria in this tender.</b>		

3. Check list for Bid evaluation (DAP/FOR basis)		Criterion	YES/NO	Remarks
	i.	Has the bidder attached bid security of bid value with the "Technical Proposal" valuing Rs. _____ (correct in all respects) as stipulated in this tender?		
	ii.	Has the bidder confirmed Railway Specifications / Requirements/ Descriptions as stipulated in this tender?		
	iii.	Is the bid validity according to the tender clause-4 of General Terms and Conditions i.e Ninety (90) days from the date of opening of tender? ( i.e from the date of opening of technical proposal)?		
	iv.	Has the bidder confirmed delivery period / schedule and delivery terms as stipulated in this tender?		
	v.	Has the bidder confirmed single place of delivery as stipulated in this tender?		
	vi.	Is the offer un-conditional?		
	vii.	Has the bidder indicated its Sales Tax Registration Number and National Tax Number?		
	viii.	Is the bidder on Active Tax Payer List (ATL) of FBR?		
	ix.	Has the bidder submitted the tender documents in original alongwith receipt issued by HC/EC?		
	x.	Is the bid Computer/ Machine typed and free from overwriting, erasing and correction?		
	xi.	Has the bidder numbered all the documents including the bid, technical literature, drawings, or any other documents, with a reference in the signed Index placed on the top of bid?		
	xii.	Is every Page of the bid including bidding documents is signed and stamped by the bidder?		
	xiii.	Has the bidder quoted for full tendered quantity?		
	xiv.	Does the bid contain complete bidding documents (prescribed) i.e having all the pages of prescribed/ duly approved bidding documents and which are duly filled, signed and stamped (N.B:- Literature, Annexure, Letters etc attached with the prescribed document must be duly stamped and signed by the bidder(s))		
	<b>NOTE</b>	<b>I/We hereby confirmed that we have read and understood fully the Evaluation Criteria in this Tender</b>		
33.	33.4(h)	Other specific criteria are [as per SCC condition if specified]		
34.	33.5 (a)	Bidder shall furnish: (Not Applicable) Estimated dimensions and shipping weight of each package. Not Applicable		
35.	33.5(b)	Delivery schedule. [Immediate after placement of order and on the basis of as and when required fully meet the demand of Pakistan Railways)		
36.	33.5(c) (ii)	Deviation in payment schedule [NOT applicable]. Annual interest rate[Zero percent]		
37.	33.5(d)	Cost of spare parts. [NOT applicable]		
38.	33.5(e)	Spare parts and after sales service facilities in Pakistan. [Not Applicable]		
39.	33.5 (f)	Operating and maintenance costs. [Not Applicable]		
40.	33.5 (g)	Performance and productivity of equipment. As per consumer report and lab report (if required).		
41.	33.5(h)	Specific additional criteria to be used in the evaluation and their evaluation method or reference to the Technical Specifications. [If specified in SCC]		
42.	33.6	In case of award to a single Bidder of multiple lots; the methodology of evaluation to determine the lowest evaluated Lot combinations, including any discounts offered in the Form of Bid is [Not Applicable]		
43.	34.1	a) Domestic preference to apply as per Federal Government Policy.		

### F. Award of Contract

44.	40.1	Percentage for quantity increase or decrease is [upto 25 %].
45.	43.1	The Performance Security (or guarantee) shall be 5 %
46.	43.2	The Performance Security (or guarantee) shall be in the form of: Pay Order, Demand Draft, CDR, B.G Bond and Banker's Cheque.
47.	44.1	The Advance Payment if essential shall be limited to [Not Applicable].
48.	44.2	Maximum amount of Advance payment shall be [Not Applicable]
49.	45.1	Arbitrator shall be appointed by mutual consent of the both parties.

### G. Review of Procurement Decisions

50.	49.1	The address of the Procuring Agency: Chief Controller of Purchase, Pakistan Railways, Headquarters Office, Abdul Hameed Bin Badees Road, Lahore.
		<b>The Address of PPRA to submit a copy of grievance:</b> <b>Grievance Redressal Appellate Committee, Public Procurement Regulatory Authority 1<sup>st</sup> Floor, G-5/2, Islamabad, Pakistan</b> <b><a href="tel:+92-51-9202254">Tel:+92-51-9202254</a></b>

SECTION V: SCHEDULE OF REQUIREMENTS,



### Schedule of Requirements

Item No.	Stock Code No	Description of Goods/Service	CAT No.	DRP No.	Qty	Unit	Delivery Terms	Delivery Period / Schedule	Bid Security	Performance Bond	Country of Origin	Brand and Manufacturer Name Note: Brand offered must conform to the Specification / Particulars given in Column-3
1	2	3	4	5	6	7	8	9	10	11	12	13
								04 month on DAP basis and 06 months on FOB basis				

(Detail placed at S.No.33 to 63)

## TECHNICAL SPECIFICATIONS

### Notes for Preparing the Technical Specifications

A set of precise and clear specifications is a prerequisite for bidders to respond realistically and competitively to the requirements of the Procuring agency without qualifying their bids. The specifications must be drafted to permit the widest possible competition and, at the same time, present a clear statement of the required standards of workmanship, materials, and performance of the goods and services to be procured. Only if this is done will the objectives of economy, efficiency, and fairness in procurement be realized, responsiveness of bids be ensured, and the subsequent task of bid evaluation facilitated. The specifications should require that all goods and materials to be incorporated in the goods be new, unused, and of the most recent or current models, and that they incorporate all recent improvements in design and materials unless provided for otherwise in the contract. Samples of specifications from previous similar procurements in the same country are useful in this respect. The use of metric units is encouraged. Depending on the complexity of the goods and the repetitiveness of the type of procurement, it may be advantageous to standardize the General Technical Specifications and incorporate them in a separate sub section. The General Technical Specifications should cover all classes of workmanship, materials, and equipment commonly involved in manufacturing similar goods, although not necessarily to be used in a particular procurement. Deletions or add end a should then adapt the General Technical Specifications to the particular procurement.

Care must be taken in drafting specifications to ensure that they are not restrictive. In the specification of standards for equipment, materials, and workmanship, recognized international standards should be used as much as possible. Where other particular standards are used, whether national standards of the Procuring Agency's country or other standards, the specifications should state that equipment, materials, and workmanship that meet other authoritative standards, and which ensure at least a substantially equal quality than the standards mentioned, will also be acceptable. The following clause may be inserted in the Special Conditions of Contract or the Technical Specifications.

#### Sample Clause: Equivalency of Standards and Codes

Wherever reference is made in the Technical Specifications to specifics and cards and codes to be met by the goods and materials to be furnished or tested, the provisions of the latest current edition or revision of the relevant shall apply, unless otherwise expressly stated in the Contract. Where such standards and codes are national or relate to a particular country or region, other authoritative standards that ensure substantial equivalence to the standards and codes specified will be acceptable.

Reference to brand name and catalogue number should be avoided as far as possible; where unavoidable (to complete an otherwise incomplete specification) they should always be followed by the words "or equivalent." Where appropriate, drawings, including site plans as required, may be furnished by the Procuring agency with the bidding documents. Similarly, the Supplier may be requested to provide drawings or samples either with its bid or for prior review by the Procuring agency during contract execution.

#### Quality Determining Parameters

As prescribed in ITB 35.2 and respective portion of Bid Data Sheet

## SECTION VI: STANDARD FORMS

STANDARD FORMS FOR (Single Stage Two Envelope Procedure)

### TABLE OF FORMS

<b>Letter of Bid–Technical Proposal Letter of Bid-Financial Proposal Bidder</b>		<b>(Mandatory: Download, fill and submit with bid)</b>
<b>Information Form</b>		<b>(Mandatory: Download, fill and submit with bid)</b>
<b>Bidder’s JV Members Information Form</b>		<b>(Mandatory: Download, fill and submit with bid)</b>
<b>Schedule:</b>	Goods Manufactured in Pakistan	<b>Given Bellow the Table at Page No.21</b>
	Goods Manufactured Outside Pakistan, to be Imported	<b>Given Bellow the Table at Page No.22</b>
<b>Form of Bid Security (Bid Bond)Form of Bid-Securing Declaration</b>		<b>(Mandatory: Download, fill and submit with bid)</b>
<b>Manufacturer Authorization</b>		<b>(Mandatory: Download, fill and submit with bid)</b>
<b>Copy of Purchase Order FOB/DAP (sample)</b>		<b>Download, fill and submit with bid)</b>
<b>Pakistan Railway website (LINK: <a href="http://pakrail.gov.pk">pakrail.gov.pk</a>)</b>		

### Price Schedule Form

[The Bidder shall fill in these Price Schedule Forms in accordance with the instructions indicated. The list of line items in column1 of the **Price Schedules** shall coincide with the List of Goods and Related Services specified by the Purchaser in the Schedule of Requirement.



**PRICE SCHEDULE: GOODS MANUFACTURED IN PAKISTAN**

Tender No.19/Spl-34/1-2023

Opening Date

(Group A and B Bids) Currencies in accordance with ITB 15										Date: ___RFB No: Alternative No: Page N□ ___of
1	2	3	4	5	6	7	8	9	10	11
Line Item N□	Description of Goods	Qty	Delivery Date as defined By Incoterms	Unit	Unit price EXW [insert EXW unit price]	Total EXW price per line item [insert total EXW price per Line item]	Price per line item for In land transportation and other services required in The Purchaser's Country to convey the Goods to the in final destination [insert the corresponding price Per line item] [insert the corresponding price Per line item]	Cost of local labor, raw materials and components from with origin in the Purchaser's Country % of Col.5 [Insert cost of local labor, raw material and components from within the Purchase's country as a % of the EXW price per line item]	Sales and other taxes payable Per line item if Contract is Awarded (in accordance with.	Total Price per line item (Col No.6+7+8+9+ 10)
1										
2										
Name[_____]/Signature[_____]/Stamp_____]									Total Price	

(Detail placed at S.No.33 to 63)

**PRICE SCHEDULE: GOODS MANUFACTURED OUTSIDE PAKISTAN, TO BE IMPORTED**

**Tender No.** 19/Spl-34/1-2023

**Opening Date**

Date: _____								
(Group C Bids, goods to be imported)			No: _____					
Currencies in accordance with ITB 16			Alternative No: _____					
Page N <sup>o</sup> of _____								
1	2	3	4	5	6	7	8	9
Line Item N <sup>o</sup>	Description of Goods	Country of Origin [insert country of origin of the Good]	Delivery Date as defined by Incoterms	Quantity and physical unit	Unit price APPLICABLE INCOTERM [insert place of destination] In accordance with ITB 15.8 [insert unit price CIP per unit] <b>FOB</b>	Price per line item including APPLICABLE INCOTERM [insert total CIP (Col.5x6) price per line item] <b>FOB</b>	Price per line item for inland transportation and other services required in the Pakistan to convey the Goods to their final destination specified in BDS	Total Price per Line item (Col.7+8)
1								
2								
<i>Total Price</i>								

Name \_\_\_\_\_ / Signature \_\_\_\_\_ Stamp \_\_\_\_\_ /

(Detail placed at S.No.33 to 63)

**SECTION VIII: SPECIAL CONDITIONS OF THE CONTRACT (SCC)**

## SPECIAL CONDITIONS OF CONTRACT (SCC)

The following Special Conditions of Contract (SCC) shall supplement the GCC. Whenever there is a conflict, the provisions herein shall prevail over those in the GCC. The corresponding clause number of the GCC is indicated in parentheses.

SCC Clause Number	GCC Clause Number	Amendments of, and Supplements to, Clauses in the GCC
<b>Definitions (GCC1)</b>		
1.	1.1	The Procuring Agency is: [Chief Controller of Purchase, Pakistan Railways, Headquarters Office, Lahore.]
2.	1.1(j)	The Supplier is:[Name and address]
3.	1.1(q)	The title of the subject procurement or The Project is tender No.19/Spl-34/1-2023 for D.E Loco spare
<b>Governing Language (GCC4)</b>		
4.	4.1	The Governing Language shall be:[English]
<b>Applicable Law(GCC5)</b>		
5.	5.1	The Applicable Law shall be: Laws of the [Governing Laws of Federal Government]
<b>Country of Origin (GCC 6)</b>		
6.	6.1	Country of Origin is [as per quoted offer]
<b>Performance Security (or guarantee) (GCC 10)</b>		
7.	10.1	The amount of performance security (or guarantee), as a percentage of the Contract Price, shall be: [5% of the Contract Price]
8.	10.4	After delivery and acceptance of the Goods, 100 percent of the Performance Security (or guarantee) shall be withheld to cover the Supplier's warranty obligations in accordance with GCC Clause 18.2.
<b>Inspections and Tests(GCC 11)</b>		
9.	11.1	<p>Inspection and tests prior to shipment of Goods and at final acceptance are as follows:</p> <p>Quality and quantity inspection shall be carried out prior to shipment of Goods by the manufacturer(s) at the supplier's own expense and responsibility in terms of the items specified in the specifications.</p> <p>In case the prior inspection is relaxed, the supplier shall provide complete Mill test report / conformity certificate from manufacturer (MSDS report in case of chemicals)</p> <p>The supplier shall submit the inspection certificate issued by himself which should be attached with the certificate(s) of the manufacturer(s) to Pakistan Railways in order to ensure that the goods are manufactured in compliance with the contract.</p>
	11.2	<p>DAP</p> <p>Inspection by DCP/Inspection/(MGPR) <b>OR</b> DCP/Inspection/KC</p> <p>Unless otherwise specified in the Purchase Order irrespective of any clause in the specification mentioned therein, inspection will be carried out by the authorized Railway Inspector on the receipt of material in P.R. Inspector Shed.</p> <p>To be carried out by the District Controller of Purchase (Inspection), Pakistan Railways, Storepura.</p> <p>All ways and means will be used for inspection of the material to certify that the material is:</p> <p>In conformity with the specifications / standards / drawings mentioned in the Purchase Order / contract</p> <p>Brand New</p> <p>As per brand mentioned in Purchase Order / contract for which import documents / manufacturer's certificate / factory gate pass of the OEM may be demanded by the inspecting officer if necessary.</p> <p>As per country of origin mentioned in the Purchase Order / contract.</p> <p>All Lab Tests to ensure that the material is as per schedule of requirement and technical specifications of Section (V) including physical and chemical properties of material as per standard. (If applicable)</p> <p>Material will be inspected on receipt in inspection shed (MGPR) (if not specially mentioned otherwise).</p> <p>Physical and practical performance testing will be carried out by subjecting material to practical performance tests (where applicable). For other chemical and physical properties, the material from supply will be tested in Pakistan Railways Laboratory.</p> <p>In case of inspection at firm's premises all incidental charges will be on firm's part.</p> <p>In case of rejections, test charges will be borne by supplier.</p>



<b>Packing(GCC Clause12)</b>		
10.	12.2	<p>The following SCC shall supplement GCC Clause 12.2:</p> <p>(DAP)  Packing of the material must comply with international standards and practices. Any further packing requirement in accordance with standard export packing specified by the Pakistan Railways in the Technical Specification.</p>
<b>Delivery and Documents (GCC Clause13)</b>		
11.	13.1	
12.	13.3	<p>For Goods from within Pakistan:</p> <p>Upon delivery of the Goods to the transporter, the Supplier shall notify the Procuring Agency and mail the following documents to the Procuring Agency:</p> <ol style="list-style-type: none"> <li>i. One original plus four copies of the Supplier's invoices having Good's description, quantity, unit price, and total amount;</li> <li>ii. Delivery note, railway receipt, or truck receipt;</li> <li>iii. Manufacturer's or Supplier's warranty certificate;</li> <li>iv. inspection certificate issued by the nominated inspection agency, and the Supplier's factory inspection report; and</li> <li>v. Certificate of Country of origin issued by Pakistan Chamber of Commerce and Industry or equivalent authority in the country of origin in duplicate.</li> </ol> <p>The above documents shall be received by the Procuring Agency before arrival of the Goods and, if not received, the Supplier will be responsible for any consequent expenses.</p> <p style="text-align: center;">As per Purchase Order existing</p>
<b>Insurance(GCC Clause14)</b>		
13.	14.1	Not Applicable.
<b>Related Services (GCC Clause 16)</b>		
14.	16.1	Related services to be provided are not applicable.
<b>Spare Parts (GCC Clause 17)</b>		
15.	17.1	Additional spare parts requirements are as per sectors.
<b>Warranty Certificate (GCC Clause 18)</b>		
16.	18.2	<p>Contract No. _____ Dated _____</p> <p>The seller warrants that the stores will be in accordance with the particulars mentioned in the purchase order.</p> <p>The Seller warrants that the stores will be brand new and free from defects in material and workmanship.</p> <p>The Seller's obligation under the warranties expressed in Sub-paragraphs (i) &amp; (ii) above shall be limited to replacement FOR Karachi Cantt free of cost stores which at the time of receipt by the consignee or under normal use and maintenance prove defective in material / workmanship or fail to comply with the required performance in the normal course of service. The warranty shall be valid for a period of 24 Months (FOB basis) and 18 months (DAP basis) from the date of receipt of material as special terms and conditions.</p> <p>The Purchaser would be entitled to retain entire security deposit against the Purchase Order till expiry of warranty period.</p> <p>This warranty shall be in addition to the normal inspection.</p>
17	18. & 18.5	The period for correction for defects in the warranty period is for FOB within 04 Months for DAP and 06 months after accept of claim.
<b>Payment(GCC Clause19) Once</b>		
18	19.1	The method and conditions of payment to be Supplier under this Contract shall be as follows:
	19.1.1	<p><u>Payment for FOB</u></p> <p>100% FOB value of the order shall be paid to manufacturer, through a confirmed and irrevocable Letter of Credit (to be opened by the purchaser). However, in some special cases the L.C be opened in the name of authorized Principal of manufacturer only on the recommendation of T.C. The L.C shall not normally require confirmation by a foreign bank. However, if confirmation is necessary/required, the confirmation will be on supplier's account.</p>

	19.1.2	<p><b>Payment for DAP</b> 100% payment will be made to the seller in Pak Rupees by the Senior Accounts Officer (Stores), Pakistan Railways Lahore on presentation of bill accompanied with Material Receipt Note to be issued by the District Controller of Purchase (Inspection), Pakistan Railways Storespora after the material has been received, inspected and accepted by him. (As per PR Specification).</p> <p><b>Payment of taxes</b> No payment should be allowed to any contractors engaged in supply of goods or services without production of clearance certificate from Excise and Taxation Department (Professional Tax Branch). Sale of goods against this purchase order shall be subject to the production of proof of payment of duty and taxes by the seller. No payment shall be admissible unless and until the paid proof is provided. Payment shall be made on presentation of Sale Tax Registration No. as well as proof of payment of sale tax to the Sale Tax Department. (As per applicable by Federal Government). <b>Note:-</b> a) The payment to the registered suppliers is linked with the active taxpayer status of the suppliers as per FBR database. If any registered supplier is not in ATL, his payment shall be stopped till he files his mandatory returns and appears on ATL of FBR.</p>
19.	19.3	0% interest will be applicable on late payment.
<b>Prices(GCC20)</b>		
20.	20.1	Not applicable.
<b>Liquidated Damages(GCC Clause26)</b>		
21.	25.1	Applicable rate 0.5% per week
<b>Procedure for Dispute Resolution (GCC Clause32)</b>		
22.	32.3	<p>Dispute Resolution <b>For Contracts to entered with foreign Contractor/Service Provider:</b> All disputes arising in connection with the present Contract shall be finally settled under the Rules of Conciliation and Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with said Rules.</p> <p><b>For Contracts to be entered with nationals of Pakistan:</b> If any dispute of any kind whatsoever shall arise between the Procuring Agency and the Supplier in connection with or arising out of the Contract, including without prejudice to the generality of foregoing, any question regarding its existence, validity, termination and the execution of the Contract—whether during developing phase or after their completion and whether before or after the termination, abandonment to breach of the Contract—the parties shall seek to resolve any such dispute or difference by mutual diligent negotiations in good faith within 7 (seven) days following a notice sent by one Party to the other Party in this regard. At future of negotiation the dispute shall be resolved through mediation and mediator shall be appointed with the mutual consent of the both parties. At the event of failure of mediation to resolve the dispute relating to this contract such dispute shall finally be resolved through binding Arbitration by sole arbitrator in accordance with Arbitration Act 1940. The arbitrator shall be appointed by mutual consent of the both parties. The Arbitration shall take place in Lahore and proceedings will be conducted in English.</p> <p>The cost of the mediation and arbitration shall be shared by the parties in equal proportion however the both parties shall bear their own costs and lawyer’s fees regarding their own participation in the mediation and arbitration. However, the Arbitrator may make an award of costs upon the conclusion of the arbitration making any party to the dispute liable to pay the costs of another party to the dispute. Arbitration proceedings as mentioned in the above clause regarding resolution of disputes may be commenced prior to, during or after delivery of goods. Not with standing any reference to the arbitration herein, the parties shall continue to perform the irrespective obligations under the Contract unless they otherwise agree that the Procuring Agency shall pay the Supplier any monies due to the Supplier.</p>
<b>Notices (GCC Clause 35)</b>		
23.	35.1	—Procuring Agency’s address for notice purposes: Chief Controller of Purchase, Pakistan Railways Headquarter Office Abdul Hameed Bin Badees Road, Lahore.
<b>FURTHER SPECIAL TERMS AND CONDITIONS OF CONTRACT</b>		
24.	1.	Firms, for certain items, will however furnish upto 10% Warranty Bond in addition to 5% security money against the Purchase Order placed on them.
25.	2.	Locomotives OEM, Diesel Engine OEM, OEM approved authorized dealer or firms approved by CME/loco office for ZCU-20/30 Locomotives can submit bid.
26.	3.	In addition to part supply, bidder to confirm fro provision of free of cost technical assistance and may provide necessary tools & equipment, if required for in frame overhauling of Diesel engine as per OEM standard on returnable basis. Bidder to provide ET, ECM and other tools for calibration of fuel injectors and fuel pumps, etc and assist PR during load test of locomotives.
27.	4.	Bidder to confirm free of cost technical assistance for interfacing of Diesel Engine with locomotive control software and up-gradation of locomotives software, if required.
28.	5.	The Suppliers shall provide authentic bar coded certificate of Origin as per the format of FTA issued by concerned forum along with Shipping Documents.

**FORM OF CONTRACT**

THIS AGREEMENT made the \_\_\_\_\_ day of 20\_\_\_\_ between [office of the Chief Controller of Purchase, Pakistan Railways, Headquarter Office, Abdul Hameed Bin Badees Road, Lahore of Pakistan (herein after called “the Procuring Agency”) of the one part and [name of supplier] of [city and country of Supplier] (herein after called “the Supplier”) of the other part:

WHEREAS the Procuring Agency invited Bids for certain goods and related services, viz.,-[brief description of goods and services] and has accepted a Bid by the Supplier for the supply of those goods and related services in the sum of [contract price in words and figures] (herein after called “the Contract Price”).

NOW THIS CONTRACT WITNESSETH AS FOLLOWS:

In this Contract words and expressions shall have the same meanings as are respectively assigned to the min the Conditions of Contract referred to.

The following documents shall be deemed to form and be read and construed as part of this Contract, In the event of any ambiguity or conflict between the Contract Documents listed below, the order of preceed encash all be the order in which the Contract Documents are listed below:-

- This form of Contract;
- The Form of Bid and the Price Schedule submitted by the Bidder;
- The Schedule of Requirements;
- The Technical Specifications;
- The Special Conditions of Contract;
- The General Conditions of the Contract;
- The Procuring Agency’s Letter of Acceptance; and
- [add here: any other documents]

In consideration of the payments to be made by the Procuring Agency to the Supplier as hereinafter mentioned, the Supplier hereby covenants with the Procuring Agency to provide the goods and related services and to remedy defects there in inconformity in all respects with the provisions of the Contract.

The Procuring Agency hereby covenants to pay the Supplier inconsideration of the provision of the goods and related services and the remedying of defects therein, the Contract Price or such other sum as may be come payable under the provisions of the contract at the times and in the manner prescribed by the contract.

IN WITNESS where of the parties here to have caused this Contract to be executed in accordance with their respective laws the day and year first above written.

Signed, sealed, delivered by\_\_the\_\_\_\_(for the Procuring Agency)  
Witness to the signatures of the Procuring Agency:.....  
Signed, sealed, delivered by\_\_the\_\_\_\_(for the Procuring Agency)  
Witness to the signatures of the Supplier:.....

**PERFORMANCE SECURITY (OR GUARANTEE) FORM**

To: [Chief Controller of Purchase, PR, HQ office, Lahore]

WHERE AS [name of Supplier] (here in after called “the Supplier”) has undertaken, in pursuance of Contract No. [Reference number of the contract] dated [insert date] to delivery [description of goods and services] (herein after called “the Contract”).

AND WHEREAS it has been stipulated by you in the said Contract that the Supplier shall furnish you with a Bank Guarantee by are put able bank for the sum specified there in as security for compliance with the Supplier’s performance obligations in accordance with the Contract.

AND WHEREAS we have agreed to give the Supplier a guarantee:

THEREFORE, WE here by affirm that we are Guarantor sand responsible to you, on behalf of the Supplier, upto a total of [amount of the guarantee in words and figures], and we undertake to pay you, upon your first written demand declaring the Supplier to be in default under the Contract and without cavil or argument, any sum or sums within the limits of [amount of guarantee] as aforesaid, without your needing to prove or to show grounds or reasons for your demand or the sum specified therein.

This guarantee is valid until the:[insert date]

Signature and seal of the Guarantors

[Name of bank or financial institution]\_\_\_\_\_

[Address]\_\_\_\_\_

[Date]\_\_\_\_\_

## INTEGRITY PACT

### DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC. PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN CONTRACTS WORTH RS.10.00 MILLION OR MORE.

Contract: \_\_\_\_\_ Number: \_\_\_\_\_ Contract: \_\_\_\_\_ Value: \_\_\_\_\_ Contract Title: \_\_\_\_\_

Dated: \_\_\_\_\_

[Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan or any administrative subdivision or agency there of or any other entity owned or controlled by it (GoP) through any corrupt business practice.

Without limiting the generality of the foregoing [Name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fee etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultations fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP, except that which has been expressly declared pursuant thereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GoP and has not taken any action or will not take any action to circumvent the above declaration, representative or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making and false declaration, not making full disclosure, misrepresenting fact or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other right and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [Name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kick back given by [Name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form GoP.

\_\_\_\_\_  
[Buyer]

\_\_\_\_\_  
[Seller/Supplier]

FORM	C.B
	<b><u>PPRA-2004</u></b>
	<b>(FOR)</b>
Price of Bidding Documents (Non-refundable Rs.5,000/-	
Price of Specification (Non-refundable) Rs._____	
Price of Drawing (Non-refundable) Rs._____	
1	Name of Bidders
2	Postal Address
3	Office Address
4	Works /Factory Address
5	Telephone No.
6	Mobile No.
7.	Fax No.
8	E. Mail
9	Web Site
10	Name of Contact
11	Sales Tax Registration No.
12	National Tax Number
13	Amount of standing security deposited:
14	LP status (if applicable)
<b>NOTE:</b> Bidders must provide the above information	

**WARRANTY  
CERTIFICATE**

**FAIR PRICE CERTIFICATE  
(On firms Letter Head)**

Contract No. \_\_\_\_\_ Dated \_\_\_\_\_

- i) The seller warrants that the stores will be in accordance with the particulars mentioned in the purchase order.
- ii) The Seller warrants that the stores will be brand new and free from defects in material and workmanship.
- iii) The Seller's obligation under the warranties expressed in Sub-paragraphs (i) & (ii) above shall be limited to replacement FOR Karachi Cantt free of cost stores which at the time of receipt by the consignee or under normal use and maintenance prove defective in material / workmanship or fail to comply with the required performance in the normal course of service. The warranty shall be valid for a period of **24/15 Months** from the date of receipt of material or **18/12 Months** (for FOB & FOR respectively) from the placement in service of complete unit whichever is earlier.
- iv) The Purchaser would be entitled to retain entire security deposit against the Purchase Order till expiry of warranty period.
- v) This warranty shall be in addition to the normal inspection.

We M/s \_\_\_\_\_ hereby certify that prices quoted by us against Tender Enquiry No. \_\_\_\_\_ dated \_\_\_\_\_ are the lowest and most competitive as generally applicable to all other buyers and or sold through our agents as per prevailing international market as on the date of quote and break up of our quoted prices are as under for analysis purpose;

In case of Market Item	In case of Manufacturing Item	Remarks
Market Price	Raw Material Cost	In case same item supplied to other Government Departments, then reference of same for comparison. OR Price is according to list issued by Government Controlled Regulatory Authority like OGRA, Pakistan Steel Mills Karachi etc.
Taxes	Production Cost	
Transportation/Packing	Transportation/Packing	
Misc Charges (detail)	Misc Charges (detail)	
Profit margin	Profit margin	
Total Quoted Price	Total Quoted Price	

We certify that if it is established at any stage that our quoted prices were higher we shall be held responsible and agree to pay immediately the differential to Pakistan Railways.

### **Opening Schedule**

ENQUIRY NOS.	OPENING DATE
Spl-34-01 to Spl-34-05	02-05-2024 (Thursday)
Spl-34-06 to Spl-34-10	03-05-2024 (Friday)
Spl-34-11 to Spl-34-15	06-05-2024 (Monday)
Spl-34-16 to Spl-34-20	07-05-2024 (Tuesday)
Spl-34-21 to Spl-34-22	08-05-2024 (Wednesday)

**Note:-**

- 1. The opening schedule of Financial Bids will be announced on case to case basis after the Technical evaluation.**
- Bidders can also download tender bulletin from PR website [www.pakrail.gov.pk](http://www.pakrail.gov.pk) and PPRA website [www.ppra.org.pk](http://www.ppra.org.pk) subject to depositing cost of tender Rs. 5000/- with CCP office, PR Headquarters office, Lahore by obtaining cash receipt, attach photocopy of the same along with their offer(s) & to be dropped in tender box of CCP office, PR Headquarters office, Lahore.*
- Bidders are advised to submit the bids complete in all respect to avoid any kind of back references.*



**Special Diesel Bulletin No.34 for the procurement of material for ZCU-20/30 D.E Locomotives, according to Procurement Plan 2023-24**

Locomotive Part List for ZCU-20/30 DE Locos

S. No.	Enquiry No.	Item No.	S/Code No.	Description	PART No	DRP No.	Scope Name/ Assembly Name	Qty	Unit	Earnest Money
<b>BOGIE PARTS</b>										
1	Spl-34-01	1	186-10110	Threaded coupler device	63401100000000	60405000000448/00	Coupler buffer device	20	Each	Rs211, 484
2		2	186-10230	inner coil spring	63352100000023	60350000000453/00	AXLE BOX	48	Each	Rs26, 662
3		3	186-10240	Spring Cover	60352000500453	60350000000453/00	Wheel set axle box	24	Each	Rs5, 372
4		4	186-10260	Inner end Cover	60352000003453	60350000000453/00	Wheel set axle box	24	Each	Rs6, 715
5		5	186-10270	First vertical damper	63352100000013	60350000000453/00	Wheel set axle box	96	Each	Rs161, 165
6		6	186-10280	Axle box spring rubber pad	63352100000024	60350000000453/00	Wheel set axle box	288	Each	Rs100, 245
7		7	186-10330	Axle box bearing	63352100000020	60350000000453/00	Wheel set axle box	144	Each	Rs353, 757
8		8	186-10340	Outer end Cover (II)	60352000005453	60350000000453/00	Wheel set axle box	36	Each	Rs10, 073
9		9	186-10350	Outer end Cover (I)	60352000004453	60350000000453/00	Wheel set axle box	36	Each	Rs10, 073
10		10	186-10360	Spring Cover III	60352000001453	60350000000453/00	Wheel set axle box	12	Each	Rs2, 686
11		11	186-10370	Spring Cover II	60352000002453	60350000000453/00	Wheel set axle box	8	Each	Rs1, 791
12		12	186-10380	Bolt M20×75	64105783000157	60350000000453/00	Bogie standard parts	250	Each	Rs1, 651
13		13	186-10430	Driven gear	60352010003453	60352010000453/00	Wheel	30	Each	Rs337, 859
14		14	186-10480	adjusting pad	60352010104453	60352010000453/00	Axle suspension box assembly	45	Each	Rs7, 449
15		15	186-10490	Drive bearing (2)	63352100000015	60352010000453/00	Axle suspension box assembly	60	Each	Rs167, 880
16		16	186-10500	Drive bearing (1)	63352100000014	60352010000453/00	Axle suspension box assembly	60	Each	Rs94, 768
17		17	186-10510	Rubber Ring	60352010108453	60352010000453/00	Axle suspension box assembly	360	Each	Rs10, 073
18		18	186-10520	anti dust ring (iv)	60352010107453	60352010000453/00	Axle suspension box assembly	45	Each	Rs25, 182
19		19	186-10560	Rubber metal pad	63353100000009	60350000000453/00	Secondary suspension device	96	Each	Rs135, 164
20		20	186-10570	seconadry lateral damper	63353100000003	60350000000453/00	Secondary suspension device	48	Each	Rs58, 019
21		21	186-10580	Anti-yaw damper	63353100000004	60350000000453/00	Secondary suspension device	80	Each	Rs94, 013
22		22	186-10640	traction push Rod	63354200000001	60350000000453/00	Draft gear	16	Each	Rs8, 954
23		23	186-10740	Gear housing Assembly	60357010000453	60350000000453/00	MOTOR SUSPENSION DEVICE	18	Each	Rs12, 087
24		24	186-10780	Nut M30	64106170000016	60350000000453/00	Bogie standard parts	150	Each	Rs436
25		25	186-10790	Bolt M30X150	64100031010008	60350000000453/00	Bogie standard parts	50	Each	Rs1, 393
26		26	186-10830	Bolt M30×160	64100031010013	60350000000453/00	Bogie standard parts	100	Each	Rs2, 916
27		27	186-10840	Bolt M24X80	63357100000000	60350000000453/00	Bogie standard parts	200	Each	Rs8, 931
28		28	186-10850	Rubber Ring 1	60357010013409	60350000000453/00	MOTOR SUSPENSION DEVICE	162	Each	Rs698
29		29	186-10870	cushion pad	60360098003401	60360000000453/00	Side stop assembly	80	Each	Rs904
30		30	186-15480	driven gear	60352110003454	60352100000454	Wheel	30	Each	Rs208, 171

31		31	186-15510	Drive bearing (2)	6335710000007	60352110000454	Axle suspension box assembly	60	Each	Rs47, 006
32		32	186-15530	adjusting spacer (1)	60357000002411	60352110000454	Axle suspension box assembly	30	Each	Rs1, 847
33		33	186-15540	Screw M12×85	64100070010040	60352110000454	Axle suspension box assembly	290	Each	Rs811
34		34	186-15570	Screw M12×100	64100070010006	60352110000454	Axle suspension box assembly	200	Each	Rs560
35		35	186-15580	Drive bearing (1)	63357100000006	60352110000454	Axle suspension box assembly	60	Each	Rs47, 006
36		36	186-15590	Retaining Ring (gear)	60357000013411	60352110000454	Axle suspension box assembly	183	Each	Rs10, 241
37		37	186-15600	dust Ring (4)	60352110105454	60352110000454	Axle suspension box assembly	30	Each	Rs6, 715
38		38	186-15630	End Cover (4)	60352080001446	60352100000454	AXLE BOX	12	Each	Rs3, 358
39		39	186-15640	primary vertical damper.	63352100000019	60352100000454	AXLE BOX	96	Each	Rs182, 653
40		40	186-15650	NUT M16	64106170000010	60352100000454	Bogie standard parts	400	Each	Rs224
41		41	186-15680	Rubber ring	60352000033401	60352100000454	AXLE BOX	144	Each	Rs2, 417
42		42	186-15690	GLAND (1)	60352010009404	60352100000454	AXLE BOX	11	Each	Rs616
43		43	186-15700	Rolling bearing (NU)	63352100000018	60352100000454	AXLE BOX	144	Each	Rs273, 980
44		44	186-15710	Spacer Ring (I)	60352120002454	60352100000454	AXLE BOX( 1,3,4,6)	40	Each	Rs1, 119
45		45	186-15720	Rolling bearing (NJ)	63352100000017	60352100000454	AXLE BOX	144	Each	Rs273, 980
46		46	186-15740	Dust Ring (2)	60352070001446	60352100000454	AXLE BOX (2,5)	32	Each	Rs7, 163
47		47	186-15750	Rear Cover (2)	60352070006446	60352100000454	AXLE BOX( 1,3,4,6)	24	Each	Rs6, 715
48		48	186-15780	Bolt M24×110	64105783000167	60352100000454	Bogie standard parts	150	Each	Rs1, 679
49		49	186-15810	Adjusting pad	60352120009454	60352100000454	AXLE BOX	384	Each	Rs10, 744
50		50	186-15850	Secondary vertical damper	63353100000005	60350000000454	Secondary suspension device	32	Each	Rs8, 595
51	Spl-34-02	1	186-15870	Secondary spring	63353100000010	60350000000454	Secondary suspension device	50	Each	Rs13, 430
52		2	186-15880	Secondary anti vibration pad	63353100000011	60350000000454	Secondary suspension device	192	Each	Rs107, 013
53		3	186-15900	Secondary lateral damper	63353100000006	60350000000454	Secondary suspension device	32	Each	Rs60, 884
54		4	186-15910	Stud M16×40	64100898000017	60350000000454	Bogie standard parts	1000	Each	Rs1, 119
55		5	186-15940	Vertical stopping plate 2	60353000002454	60350000000454	Secondary suspension device	20	Each	Rs38, 053
56		6	186-16110	Bolt M24×55	64105783000079	60350000000454	Bogie standard parts	50	Each	Rs84
57		7	186-16140	O SEAL Ring 198X4	64963265000000	60350000000454	Draft gear	32	Each	Rs358
58		8	186-16150	O-SEAL RING 200x4	64963265000001	60350000000454	Draft gear	32	Each	Rs358
59		9	186-16290	Gear Cover Assembly	60357020000454	60350000000454	MOTOR SUSPENSION DEVICE	24	Each	Rs120, 806
60		10	186-16330	Motor boom rubber joint	63357100000008.002	60350000000454	Foundation Brake Rigging	240	Each	Rs604, 368
61		11	186-39550	Axle box	60352000200453	60352100000453/00	Axle box 2,5	6	Each	Rs15, 109
62		12	186-39560	PRESSING COVER	60352000006453	60350000000453/00	AXLE BOX	12	Each	Rs3, 223
63		13	186-39610	Axel box body	60352000201453	60352000000453/00	AXLE BOX	36	Each	Rs70, 510
64		14	186-39630	inserted pin	60355010100403	60355000000453/00	unit Brake	500	Each	Rs33, 576
65		15	186-39990	lable of brake shoe	60355010030403	60355000000453/00	unit Brake	350	Each	Rs3, 917
66		16	186-42580	Bolt M22x80	64105783000158	60401000000449	Bogie standard parts	250	Each	Rs630
67		17	186-16340	Bolt M30X130	60357000007411	60355000000454	Bogie standard parts	100	Each	Rs17
68		18	186-43730	Bolt M24×60	64100032010008	60350000000454/00	Motor suspension device	100	Each	Rs84

69		19	186-43760	Check Ring	60357500005401	60350000000454	MOTOR SUSPENSION DEVICE	200	Each	Rs34
70		20	186-43970	Semi Round Pin 25x120x112	64200055000011	60355000000454	Hand brake device	40	Each	Rs1, 791
71		21	N.S	DUST Ring (1)	60352130006454	60352100000454/01	AXLE BOX( 1,3,4,6)	36	Each	Rs3, 509
72		22	N.S	Spacer Ring (II)	60352130003454	60352100000454/01	AXLE BOX (2,5)	20	Each	Rs8, 665
73		23	N.S	Bolt M22x60	64105783000221	60350000000453/00	Bogie standard parts	250	Each	Rs1, 679
74		24	N.S	Bolt M24x60	64105783000080	60350000000453/00	Bogie standard parts	100	Each	Rs560
75		25	N.S	Bolt M24x70	64105783000082	60350000000453/00	Bogie standard parts	100	Each	Rs839
76		26	N.S	Bolt M30*165	63350100000013	60350000000454/00	Bogie standard parts	100	Each	Rs6, 167
77		27	N.S	side buffer divice	63401400000003	.60401000000449/02	Coupler buffer device	24	Each	Rs167, 880
78		28	N.S	draw gear rubber joint	63354200000001.002	60350000000453/00	Draft gear	96	Each	Rs827
79		29	N.S	Pull Rod assembly	60358000200453	60350000000453/00	Hand brake device	8	Each	Rs2, 686
80		30	N.S	Chain Ring	60351000012409	60350000000453/00	MOTOR SUSPENSION DEVICE	60	Each	Rs5, 540
81		31	N.S	Semi Round Pin 25x70x62	64200055000008	60350000000453/00	MOTOR SUSPENSION DEVICE	30	Each	Rs1, 259
82		32	N.S	Stone sweeper	60360010100453-00	60100000000449-01	Stone sweeper assembly	80	Each	Rs1, 119
83		33	N.S	Support Base	63401400000003.006	60405000000448/02	side buffer	18	Each	Rs957
84		34	N.S	Pressing Cover	60352000007453	60352100000453/00	Wheel set axle box	30	Each	Rs17, 627
85		35	N.S	Axle box pull rod rubber joint	63352100000025.001	60352120000453/00	Wheel set axle box	384	Each	Rs32, 233
86		36	N.S	Axle box pull rod rubber joint	M0000001438-68	60352120000453/00	Wheel set axle box	196	Each	Rs126, 134
87		37	N.S	Axle box pull rod rubber joint	63352100000029.001	60352120000454/01	Wheel set axle box	192	Each	Rs145, 048
88		38	N.S	slinger	60351000011409	60350000000453-00	MOTOR SUSPENSION DEVICE	300	Each	Rs52, 043
89		39	N.S	Buffer Cake	63401400000003.002	60401000000448/02	side buffer	696	Each	Rs58, 422
90		40	N.S	Bolt M16x90	64105782000022	60350000000454	Second suspension	160	Each	Rs1, 343
91		41	N.S	Rubber Joint Wheel No.1, 3,4 &6	63352100000030.001	60352120000453/00	Upper axle box tie rod	192	Each	Rs64, 466
92		42	N.S	Rear Cover (1)	60352130007454	60352100000454/01	Axle box (2,5)	4	Each	Rs2, 521
93		43	N.S	End Cover (3)	60352160008454	60352100000454/01	Axle box (2,5)	2	Each	Rs1, 679
94		44	N.S	End Cover Weld	60352170100454	60352100000454/01	Axle box (6)	2	Each	Rs672
<b>Air comp</b>										
95		45	186-18580	intercooler Complete	M000001810815	60320010000449	Air COMPRESSOR 3CD	5	Each	Rs67, 852
96		46	186-14210	valve E-1 Safty	63317300000002.03#7	63317300000002/00	Intercooler Complete With Safety Valves	5	Each	Rs13, 728
97		47	186-14530	Low Pressure Piston	63317300000002.095	63317300000002/00	6CD3UC Air Compressor Assembly	10	Each	Rs3, 818
98		48	186-18530	Air compressor Flange	60320011001449	60300000000449	Air source device installation	5	Each	Rs336
99		49	186-18590	Aftercooler radiator	M000001810786	60320010000449	3CDCBLAT Air	2	Each	Rs20, 929
100		50	186-19210	Filter Element	63317300000003.12#3 / 655127	60320010000449	3CD air compressor	60	Each	Rs8, 142
101	Spl-34-03	1	186-33310	Crank shaft	63317300000002.079	63317300000002/ 00	6CD3UC Air Compressor Assembly	5	Each	Rs125, 910
102		2	186-33350	Insert Bearing , Set	63317300000002.088	63317300000002/ 00	6CD3UC Air Compressor Assembly	48	Each	Rs32, 233
103		3	186-33360	HIGH Pressure Piston Bushed	63317300000002.089	63317300000002/ 00	6CD3UC Air Compressor Assembly	12	Each	Rs5, 708
104		4	N.S	E-1 Safety valve Assembly	63317300000002.011	63317300000002	Oil Pressure Relief Valve Assembly	6	Each	Rs15, 109
105		5	N.S	Air compressor Flange	60317010011448-00	60300000000448-00	6CD3UC Air Compressor Assembly	5	Each	Rs4, 197

106		6	N.S	Oil float gauge	6331700000069 / 572863	63317300000002	Side Cover Assembly	5	Each	Rs2, 658
107		7	N.S	Inlet valve unloader assembly	63317000000146 / 680001	63317300000002	3CD air compressor	186	Each	Rs52, 043
108		8	N.S	Discharge valve	63317000000147 / 578773	63317300000002	3CD air compressor	186	Each	Rs182, 150
<b>Traction motors</b>										
109		9	186-16310	Driving gear	63357000002454	60350010000454-00	Traction motor ZD109F1	48	Each	Rs64, 466
110		10	186-19450	Roller Bearing NJ/HJ 318	63357300000002.007	63573000000002	Traction motor ZD109F1	36	Each	Rs2, 915, 874
111		11	186-19590	Roller Bearing NU-330	63357300000002.022	63573000000002	Traction motor ZD109F1	36	Each	Rs76, 678
112		12	186-19790	Iron core at commutating pole	63357300000002.045	63573000000002	Traction motor ZD109F1	48	Each	Rs55, 239
113		13	186-20080	Armature Assembly	63357300000003.021	63357300000003	Traction motor ZD126B3	18	Each	Rs383, 824
114		14	186-20420	Leading out wire (AA)	63357300000003.060	63357300000003	Traction motor ZD126B3	48	Each	Rs3, 900
115		15	186-20430	Leading out wire (A)	63357300000003.061	63357300000003	Traction motor ZD126B3	48	Each	Rs3, 900
116		16	186-20450	Leading out wire (FF)	63357300000003.063	63357300000003	Traction motor ZD126B3	48	Each	Rs3, 900
117		17	186-20460	Leading out wire (F)	63357300000003.064	63357300000003	Traction motor ZD126B3	48	Each	Rs3, 900
118		18	186-20670	Driving gear (pinion 14 teeth)	63573000001453	63357300000003	Traction motor ZD126B3	72	Each	Rs120, 672
119		19	186-23320	Stator (ventilator motor 20/30)	63223300000003.011	632233000000003	ventilator motor 20/30)	15	Each	Rs73, 109
120		20	N.S	Motor	M000001153127	632053000000000	Dust Exhaust Ventilator	30	Each	Rs58, 758
121		21	N.S	Canvas Jacket	63202200000006	632023000000004	Alternator zcu-20	12	Each	Rs3, 358
122		22	N.S	Holder Spring (U)	M000001703185	632023000000012	Alternator zcu-30	128	Each	Rs14, 032
123		23	N.S	Structural external view of Slip Ring	632023000000012.049	632023000000012	Main& auxiliary generator	8	Each	Rs3, 358
124		24	N.S	Stator (air compressor motor)	634503000000016.016	634503000000016	Air compressor motor zcu-30	5	Each	Rs8, 394
125		25	N.S	External cover of Front Bearing	634503000000016	634503000000016	Air compressor motor zcu-30	5	Each	Rs700
<b>AIR SYSTEM</b>										
126		26	186-34120	Dust filter L10	633101000000039	60308000000449	Air application pipeline for electric cabinet	20	Each	Rs5, 148
127		27	186-18440	Woofer	633081000000032	60308020000448	Cab Roof Pipeline Assy	15	Each	Rs5, 036
128		28	186-18450	Teweeter	633081000000033	60308020000448	Cab Roof Pipeline Assy	15	Each	Rs7, 811
129		29	186-19250	High pressure safety valve(1225kPa)	633201000000006	60316020000449	Air source equipment pipeline (2)	10	Each	Rs11, 063
130		30	186-19290	Automatic drain valve	633201000000000	60318040000448	Auxiliary equipment installation and piping (2)	20	Each	Rs8, 954
131		31	186-33750	Dust filter L25	633101000000038	60310000000448	Valves installation in front machine room	20	Each	Rs4, 477
132		32	186-33760	check valve 3/8 NPT	633101000000040	60310000000448	Auxiliary valave installation in front room	10	Each	Rs7, 834
133		33	186-33800	Relief valve L10-1	633101000000032	60310000000448	Vacuum Valve Installation and Pipeline	20	Each	Rs26, 861
134		34	186-33810	Check valve L10	633101000000034	60310000000448	Auxiliary valves installation in front machine room	30	Each	Rs23, 503
135		35	186-33870	Relief valve L10-2	633101000000033	60310000000448	Auxiliary valves installation in front machine room	36	Each	Rs28, 204
136		36	186-34030	26-C Brake valve	633081000000029	60308000000449	brake valve instalation	3	Each	Rs20, 985
137		37	186-34040	3/4" pad Washer	633081000000030	60308000000449	brake valve instalation	60	Each	Rs84
138		38	186-34070	1"pad	633102000000003	60308000000449	Valves installation in front machine room	30	Each	Rs42

139		39	186-34170	UIC Angle Cock(left)	63316100000004	60300000000449	Body piping (1)	40	Each	Rs1, 567
140		40	186-34200	Interlocking ball type cock ADN32-BP	633001000000054	60300000000449	Rear engine room valve installation	20	Each	Rs28
141		41	186-34250	1_1/4"pad	633161000000008	60316000000449	Front End 8# Vent Valve Assy	20	Each	Rs28
142		42	186-34260	Check valve L32-DX	633101000000035	60320000000449	Air source equipment pipeline (2)	20	Each	Rs12, 311
143		43	186-34270	Dust filter L32	633101000000037	60320000000449	Air source equipment pipeline (2)	20	Each	Rs5, 036
144		44	186-34330	Pressure gauge 2	633181000000000	60320000000449	Valve installation in front machine room	15	Each	Rs10, 073
145		45	186-47000	wind gauge	63451300000083.001	60451100000449	Wind meter module	10	Each	Rs4, 477
146		46	186-47010	wind gauge	63451300000083.002	60451100000449	Wind meter module	10	Each	Rs4, 477
147		47	186-47250	1/2"pad	633102000000002	60310000000448	Valves installation in front machine room	20	Each	Rs448
148		48	186-47340	seal ring of the valve body	633202000000000	60320000000449	Auxiliary equipment installation and piping	20	Each	Rs336
149		49	186-48340	Release spring	60355010604403	60355000000454	Brake cylinder assembly	150	Each	Rs2, 518
150		50	186-49010	D-1 Emergency brake valve	633081000000028	60308000000449	Emergency Brake Valve Installation and Pipelin	5	Each	Rs3, 358
151	Spl-34-04	1	186-49300	DN8 interlocking plug	633151000000015	60315000000448/00	Vacuum valve installation and piping	15	Each	Rs126
152		2	186-49640	Kit 26 c brake valve	633004000000000 / 559547	60308010000448/01	"26-C" Automatic brake valve	30	Each	Rs2, 686, 080
153		3	186-49800	DOG. CAM (regulating valve)	633081000000029.027	633081000000029	26-D control valve (1)	30	Each	Rs1, 679
154		4	N.S	Wire seal ring	525033 / M000001822314	60310030000448-01	A-1 emergency cutoff application valve	12	Each	Rs67
155		5	N.S	A1 Charging Cutoff Pilot Valve Kit	566566 / 633004000000013	60310030000448-01	A-1 emergency cutoff application valve	12	Each	Rs10, 073
156		6	N.S	A-1 Differential Pilot Valve Kit	591546 / 633004000000009	60310030000448-01	A-1 Vacuum Differential Pilot Valve	12	Each	Rs5, 036
157		7	N.S	joint body 1/2 NPT	603100300007448-00	60310000000448	Auxiliary valve installation in front room	10	Each	Rs839
158		8	N.S	Joint body d32×R1.25	603160600006448-00	60316000000449-01	Air reservoir pipelines under car body	20	Each	Rs2, 238
159		9	N.S	Air drying agent	633183000000001.078	60320000000449	Air dryer	32	Each	Rs13, 430
160		10	N.S	screen holder	633200000000019	60318040000448-00	Automatic drain valve	15	Each	Rs4, 197
161		11	N.S	O-ring φ9.6×φ1.8	633200000000020	60318040000448-00	Automatic drain valve	20	Each	Rs112
162		12	N.S	O-ring φ27.2×φ1.8	633200000000021	60318040000448-00	Automatic drain valve	20	Each	Rs280
163		13	N.S	O-ring φ42.6×φ3.55	633200000000023	60318040000448-00	Automatic drain valve	20	Each	Rs392
164		14	N.S	O-ring φ22.2×φ2.6	633200000000022	60318040000448-00	Automatic drain valve	20	Each	Rs168
165		15	N.S	O-ring φ11.6×φ1.8	633200000000027	60318040000448-00	Automatic drain valve	20	Each	Rs112
166		16	N.S	O-ringφ70.3×φ2.65	630002000000791	60318040000448-00	Automatic drain valve	20	Each	Rs783
167		17	N.S	filter blockφ8×2	M000001280613	60320040000449-01	Automatic drain valve	15	Each	Rs3, 358
168		18	N.S	horn diaphragm	633083000000112	60308020100448-01	Bass speaker	30	Each	Rs420
169		19	N.S	Elbow	603140000002429-00	60350000000453-00	Bogie piping	100	Each	Rs1, 959
170		20	N.S	TAD-4.8-H desiccant	M000001146115	60317000000448-00	Dryer	380	Each	Rs53, 162
171		21	N.S	vent valve	M000001146124	60317000000448-00	Dryer	12	Each	Rs3, 358
172		22	N.S	check valve	633183000000035	60317000000448-00	Dryer	12	Each	Rs1, 343
173		23	N.S	inlet valve	M000001146125	60317000000448-00	Dryer	12	Each	Rs19, 474
174		24	N.S	Desiccant repair kit	M000001146118	60317000000448-00	Dryer	12	Each	Rs1, 007

175		25	N.S	dryer repair kit	M000001146118	60317000000448-00	Dryer	12	Each	Rs36, 934
176		26	N.S	dryer repair kit	M000001146117	60317000000448-00	Dryer	8	Each	Rs24, 622
177		27	N.S	O-ring 36.5×1.8	M000000796621	60310030000448-01	Dust filter L32	10	Each	Rs112
178		28	N.S	valve element	M000001435085	60318020000448-01	Dust filter L33	15	Each	Rs839
179		29	N.S	sealing gasket	M000001816379	60318020000448-01	Dust filter L34	10	Each	Rs84
180		30	N.S	spring	63310000000134	60310020000448-02	Front engine room valve installation	25	Each	Rs700
181		31	N.S	F1 Selector Valve Rubber Kit	559555 / 63300400000005	60310030000448-01	F1 Selector Valve	20	Each	Rs2, 798
182		32	N.S	Gasket-Housing	656404	60315020000448-01	GD-80-L Filter	10	Each	Rs476
183		33	N.S	diaphragm plate	526346 / M000001822315	63308100000029	HS-4 Control Valve	12	Each	Rs134
184		34	N.S	J-1 Relay Valve Rubber Kit	560728 / 63300400000006	60310030000448-01	J-1 relay valve	20	Each	Rs3, 358
185		35	N.S	Alarm bell	63316100000010	60316000000448-00	Alarm Bell Installation	10	Each	Rs3, 358
186		36	N.S	A-1 Emergency cut off valve	63310100000024	60310000000448-01	Valve installation in front machine room	2	Each	Rs1, 679
187		37	N.S	pressure gauge I	63315100000017	60315000000448-00	VA-1 Vacuum Release Valve Choke	5	Each	Rs1, 399
188		38	N.S	Spring	555717 / 63315100000002.004	60315020000448-01	VA-1 Vacuum Release Valve Choke	15	Each	Rs252
189		39	N.S	pressure gauge II	63318100000000	60320000000449	Valve installation in rear machine room	10	Each	Rs4, 197
190		40	N.S	wind gauge	63449100001979	60451100000449	Wind meter module	10	Each	Rs4, 197
191		41	N.S	wind gauge	63449100001924	60451100000449	Wind meter module	10	Each	Rs4, 197
192		42	N.S	wind gauge	M000001148232	60451000000448-02	Air meter Module	10	Each	Rs4, 197
193		43	N.S	26D Control Valve Service Portion Kit	559551/ 63300400000010	63308100000029	26-D control valve (1)	30	Each	Rs510, 490
194		44	N.S	26D Control Valve Quick Release Portion Kit	559553/ 63300400000011	60308000000449	26C Automatic brake valve	20	Each	Rs340, 326
195		45	N.S	#8 Vent Valve Portion Kit	591885/ 63300400000002	60316080000448-00	8# Vent Valve	40	Each	Rs33, 576
196		46	N.S	soft flexible pipe	640722.0001		Air source Equipment Installation	40	Each	Rs1, 007
197		47	N.S	Kit 26-D quick release portion	63300400000011 / 559553	63300400000011	26-D Control valve (2)	30	Each	Rs16, 788
198		48	N.S	Kit 26 - D service portion	63300400000010 / 559551	63300400000010	26-D Control valve (1)	30	Each	Rs16, 788
199		49	N.S	A-1 Emergency cut off valve kit	63300400000013 / 566566	60310030000448-01	A-1 Emergency cutoff valve	30	Each	Rs33, 576
200		50	N.S	Desicant	63318300000000.024	#N/A	Air source device installation	750	Kgs	Rs81, 632
<b>MECHANICAL</b>										
201	Spl-34-05	1	186-10200	L=8m Sealing strip L=8m	60151010102448	60151010000448/00	Side wall door assembly	150	Each	Rs126
202		2	186-11150	Nut M12	64106170000007	60201000000449	Exhaust system	300	Each	Rs201
203		3	186-11550	Oil level gauge	63207100000006	60205000000448/00	fuel tank installation	24	Each	Rs1, 343
204		4	186-11660	plate type Radiator	63222100000005	60221000000448/00	PLATE TYPE RADIATOR	6	Each	Rs904, 501
205		5	186-11670	cooling fan	63222100000006	60221000000448/00	PLATE TYPE RADIATOR	3	Each	Rs335, 760
206		6	186-12000	Pressure Seat Gasket	60230010001437	60230000000448/00	PLATE TYPE RADIATOR	20	Each	Rs112

207		7	186-12030	Level Guage	6323010000011	6023000000448/00	Expansion tank installation	24	Each	Rs537
208		8	186-12130	Spacer (3)	60230020003437	6023000000448/00	High temperature water main pipeline assembly	120	Each	Rs672
209		9	186-12350	Dg-80 Two Ball Coupling	6323020000012	6023000000448/00	High temperature water main pipeline assembly	100	Each	Rs57, 919
210		10	186-12360	Spacer	60230030001448	6023000000448/00	High temperature water main pipeline assembly	12	Each	Rs34
211		11	186-12390	Spacer	60230030007448	6023000000448/00	High temperature water main pipeline assembly	25	Each	Rs70
212		12	186-15860	Bolt M16 * 60	64105783000055	60201000000449/00	Exhaust system	300	Each	Rs336
213		13	186-16930	Inertial Air Filter	63205200000000	60205000000449	intake system	100	Each	Rs39, 345
214		14	186-16990	Pad	60206000001448	60201000000449	Exhaust system	24	Each	Rs269
215		15	186-17060	Pad	60206000002448	60201000000449	Exhaust system	48	Each	Rs537
216		16	186-17190	Bolt M12×45	64105783000029	60201000000449/00	Exhaust system	200	Each	Rs90
217		17	186-17320	Oil Level gauge	63207100000007	60201000000449	fuel tank installation	24	Each	Rs28, 327
218		18	186-17820	Gasket(5)	60230020006437	60230000000449	High temperature water main pipeline assembly	8	Each	Rs67
219		19	186-18410	hose	63230200000020	60230000000449	High temperature water main pipeline assembly	36	Each	Rs1, 007
220		20	186-20780	Main portion of window windshield wiper (left)	63308300000016	60308000000448/00	wiper installation	20	Each	Rs51, 013
221		21	186-20800	Main portion of window windshield wiper (right)	63308300000018	60308000000448/00	wiper installation	20	Each	Rs38, 187
222		22	186-20810	Main portion of door windshield wiper (left)	63308300000012	60308000000448/00	wiper installation	20	Each	Rs19, 586
223		23	186-20820	Main portion of door windshield wiper (right)	63308300000014	60308000000448/00	wiper installation	20	Each	Rs19, 586
224		24	186-27140	Equal diameter hose d200	63205200000017	60205000000449	intake system	50	Each	Rs1, 679
225		25	186-27150	Reducer hose d200-d150	63205200000018	60205000000449	intake system	48	Each	Rs1, 612
226		26	186-40080	Rolling Bearing 51110	64100301000002	60355000000453/00	Unit brake (1)	250	Each	Rs349, 750
227		27	186-42030	Front look glass sunshade	60153040000448	60402000000448/00	cab equipment	40	Each	Rs1, 343
228		28	186-42190	Active window glass	63153200000031.02.002	63153200000031/00	cab side window	60	Each	Rs6, 715
229		29	186-42210	Compound sealing strip	63153200000031.02.004	63153200000031/00	cab side window	60	Each	Rs50
230		30	186-42220	Buffering sealing strip	63153200000031.02.007	63153200000031/00	Active frame component	40	Each	Rs67
231		31	186-42320	Door lock of locomotive	63153100000019.015	60153010000448-01	Left entrance door for cab	30	Each	Rs1, 343
232		32	186-42410	Door lock of locomotive	63153100000020.015	60153010000448	Left entrance door for cab	30	Each	Rs1, 343
233		33	186-42450	Brush of window windshield wiper (left)	63308300000017	60308000000449	wiper installation	20	Each	Rs448
234		34	186-42460	Brush of window windshield wiper (right)	63308300000019	60308000000448/00	wiper installation	20	Each	Rs448
235		35	N.S	Air Filter Housing	63205200000019	60205000000449	intake system	20	Each	Rs6, 616

236		36	N.S	Generator Flange	60202070001448	60202000000448/00	assembly of elastic coupling	5	Each	Rs5, 480
237		37	N.S	Moving frame assembly	63153200000031.02	60153020000448/00	cab side window	30	Each	Rs1, 068
238		38	N.S	Seal Gasket	M000001805235	60221000000448/00	PLATE TYPE RADIATOR	30	Each	Rs1, 625
239		39	N.S	Seal Gasket (1)	M000001126064	60221000000448/00	PLATE TYPE RADIATOR	20	Each	Rs1, 083
240		40	N.S	Seal Gasket (2)	M000001126065	60402000000448/00	PLATE TYPE RADIATOR	10	Each	Rs542
241		41	N.S	Damper 1550*234*5	M000001126066	60221000000448/00	PLATE TYPE RADIATOR	32	Each	Rs39, 396
242		42	N.S	cooling fan	63222100000008	60221000000448/00	PLATE TYPE RADIATOR	6	Each	Rs5, 036
243		43	N.S	Nut M 30	64106172010012	60350000000453/00	Fuel tank installation	200	Each	Rs582
244		44	N.S	Screw	60102000003425	60202000000448/01	Installation of vibration isolator	200	Each	Rs716
245		45	N.S	stud	60102000017418	60201000000448/00	Diesel engine mount assembly	300	Each	Rs5, 993
246		46	N.S	NUT	60102000001418	60201000000448/00	Diesel engine mount assembly	300	Each	Rs5, 909
247		47	N.S	Canvas cover D100×500	63202200000008	60201000000449/00	Diesel generator set installation	16	Each	Rs3, 899
248		48	N.S	canvas cover	63202200000006	60201000000449/00	Diesel generator set installation	12	Each	Rs336
249		49	N.S	Elastic coupling	63202300000013	60201000000449/00	Diesel generator set installation	8	Each	Rs194, 957
250		50	N.S	Elastic coupling	63202300000009	60201000000448/00	Diesel generator set installation	12	Each	Rs535, 254
251	Spl-34-06	1	N.S	TUBE	63202300000008	60202000000448-01	Diesel generator set installation	24	Each	Rs1, 343
252		2	N.S	ring 28×3.5	64101235000024	60203000000448-02	Diesel generator set installation	20	Each	Rs560
253		3	N.S	Gasket	M000001805229	60203000000448-02	Diesel generator set installation	300	Each	Rs58, 221
254		4	N.S	Mesh filter	M000001438625	60203000000448-02	Diesel generator set installation	200	Each	Rs139, 900
255		5	N.S	O-ring	63204200000011	60201000000449-00	Diesel generator set installation	40	Each	Rs4, 287
256		6	N.S	Bolt M30×120	64105783000087	60201000000449-00	fuel tank installation	200	Each	Rs241, 188
257		7	N.S	Primary fuel filter 100	63203100000027	60201000000449-00	Fuel System	5	Each	Rs78
258		8	N.S	check valve Dg25	63203100000008	63203100000008	Fuel System	8	Each	Rs74, 547
259		9	N.S	pressure regulating valve 1	63203100000025	60201000000449-00	Fuel System	8	Each	Rs7, 896
260		10	N.S	pressure regulating valve 2	63203100000026	60201000000449-00	Fuel System	8	Each	Rs7, 896
261		11	N.S	Active Frame window	M000001920028	60153020000448-00	glass installation	20	Each	Rs152
262		12	N.S	Front window glass strip (1) L=3950	62153030001448	60153000000448-02	glass installation	10	Each	Rs76
263		13	N.S	Headlight glass strip L=2350	62153030005448	60153000000448-02	glass installation	30	Each	Rs940
264		14	N.S	handle assembly	63153000000361	60153020000448-00	glass installation	60	Each	Rs10, 190
265		15	N.S	Dg 100 Two-Ball flexible rubber joint	63230200000014	60230000000448/00	High temperature water main pipeline assembly	24	Each	Rs1, 007
266		16	N.S	Square spacer	60230020001445	60230000000448/00	High temperature water main pipeline assembly	48	Each	Rs672
267		17	N.S	Dg-100 Single Ball Coupling	63230200000013	60230000000448/00	High temperature water main pipeline assembly	20	Each	Rs11, 584
268		18	N.S	Pad	63206200000007	60201000000449	Exhaust system	16	Each	Rs260
269		19	N.S	Gasket	63206200000008	60201000000449	Exhaust system	16	Each	Rs21



270		20	N.S	Connection sleeve d470×200	63223200000002	60221000000449-00	installation of blower	20	Each	Rs839
271		21	N.S	impeller assembly	M000001146171	60221000000449-00	installation of blower	30	Each	Rs48, 685
272		22	N.S	Filter assembly	63151200000014	60151000000449-01	Side wall door assembly	48	Each	Rs130, 409
273		23	N.S	Replaceable filter element 575×205	63151100000090	60151000000449-01	Side wall door assembly	48	Each	Rs20, 146
274		24	N.S	impeller assembly	63223300000003	60223000000449-01	tration motor ventilator set	15	Each	Rs24, 343
275		25	N.S	Rubber element	6320220000010.003	60201000000449/00	Vibration isolator	48	Each	Rs51, 183
276		26	N.S	Rubber element	6320230000010.003	60201000000448/00	Vibration isolator	72	Each	Rs76, 775
277		27	N.S	Boneless Wiper Blade	63308300000019.001	60308000000448/00	Window wiper wiper	80	Each	Rs22, 384
278		28	N.S	Brush of door windshield wiper (left)	63308300000013	60308000000448/00	wiper installation	20	Each	Rs6, 156
279		29	N.S	Brush of door windshield wiper (right)	63308300000015	60308000000448/00	wiper installation	20	Each	Rs6, 156
280		30	N.S	Locking mechanism	60355010500403-00	60355000000453/00	Unit brake (1)	250	Each	Rs69, 950
281		31	N.S	Glass Tube	63230100000011.014	63230100000011	level gauge	20	Each	Rs224
282		32	N.S	Seal-O-Ring	63203100000027.008	63203100000027	Primary fuel filter 100	20	Each	Rs35, 479
283		33	N.S	Gasket	63203100000027.011	63203100000027	Primary fuel filter 100	20	Each	Rs280
<b>ELECTRICAL</b>										
284		34	186-19260	Pressure switch(630kPa~700kPa)	63300300000006	60320000000449	Rear engine room valve installation	20	Each	Rs15, 277
285		35	186-19270	Pressure switch(800kPa~1000kPa)	63300300000005	60320000000449	Rear engine room valve installation	20	Each	Rs15, 277
286		36	186-19280	Pressure switch(750kPa~950kPa)	63300300000004	60320000000449	Rear engine room valve installation	20	Each	Rs15, 277
287		37	186-20760	pressure sensor(0-10bar)	63300300000011	600100300000448/00	Front engine room valve installation	30	Each	Rs55, 165
288		38	186-20770	Electric pneumatic valve(74V)	63300300000007	60300000000448/00	Vent valve (DC74V)	10	Each	Rs14, 372
289		39	186-20930	Microcomputer display Screen	63451300000071	60451000000448/00	Console	20	Each	Rs108, 773
290		40	186-20950	horn button	63451300000079	60451000000448/00	Console	10	Each	Rs2, 417
291		41	186-20970	Buzzer	63451300000059	60451000000448/00	Console	10	Each	Rs474
292		42	186-21010	headlight control switch	63465300000136	60451000000448/00	Console	20	Each	Rs7, 382
293		43	186-21030	Switch for wiper	63308300000021	60451000000448/00	Front engine room valve installation	30	Each	Rs504
294		44	186-21040	Air conditioner switch	63465300000144	60451000000448/00	Console	10	Each	Rs168
295		45	186-21060	74V electric stove socket	63451300000085	60451000000448/00	Console	10	Each	Rs56
296		46	186-21070	fire alarm host	63451300000087	60451000000448/00	Console	5	Each	Rs140
297		47	186-21080	control box	63308300000020	60451000000448/00	Front engine room valve installation	10	Each	Rs280
298		48	186-21090	46 pin plug	63452300000041	60451000000448/00	Auxiliary converter cabinet	60	Each	Rs105, 113
299		49	186-21200	docking socket	63452300000047	60452000000448/00	Frame electrical	15	Each	Rs42
300		50	186-21210	Double small light	63452300000036	60452000000448/00	Lamp and Reconnect Assembly	160	Each	Rs397, 271
301	Spl-34-07	1	186-21450	reading light	63450300000023	60450000000448/00	Body electrical equipment	20	Each	Rs5, 954

302		2	186-21470	cab fan	63450300000019	6045000000448/00	Body electrical equipment	25	Each	Rs19, 348
303		3	186-21530	current transformer	63459300000004	6045000000448/00	Silicon rectifier cabinet	10	Each	Rs99, 525
304		4	186-21570	speed sensor	63461300000013	6045000000448/00	Diesel Engine	12	Each	Rs9, 732
305		5	186-21580	TAP module	63464300000016.004	6046400000448/00	Excitation CAB	5	Each	Rs40, 924
306		6	186-21600	Main engine excitation controller	63464300000016.007	6046400000448/00	Excitation CAB	3	Each	Rs19, 496
307		7	186-21610	current sensor	63464300000016.008	6046400000448/00	Excitation CAB	10	Each	Rs33, 576
308		8	186-21620	Auxiliary Excitation Controller	63464300000016.009	6046400000448/00	Excitation CAB	3	Each	Rs17, 059
309		9	186-21640	Fuse Assembly	63464300000016.012	6046400000448/00	Excitation CAB	10	Each	Rs30, 414
310		10	186-21670	Battery Group	63473300000001	6045000000448/00	Battery group	12	Each	Rs12, 671
311		11	186-21680	50A sine wave filter	634793000000045	6047900000448/00	Auxiliary converter cabinet	12	Each	Rs96, 403
312		12	186-21690	160A reactor	634793000000041	6047900000448/00	Auxiliary converter cabinet	8	Each	Rs53, 117
313	Spl-34-67	13	186-21700	AF110 Contactor	634793000000046	6047900000448/00	Auxiliary converter cabinet	15	Each	Rs41, 310
314		14	186-21810	Terminal block	634796000000034	6047900000448/00	Auxiliary converter cabinet	3	Each	Rs1, 007
315		15	186-21920	current sensor	634653000000168	6045500000448/00	Electrical cabinet	150	Each	Rs58, 758
316		16	186-21930	Magnetic cutting resistance	634653000000121	6045500000448/00	Electrical cabinet	5	Each	Rs5, 068
317		17	186-21940	Magnetic cutting resistance	634653000000122	6045500000448/00	Electrical cabinet	5	Each	Rs5, 207
318		18	186-21950	Over current relay	634653000000170	6045500000448/00	Electrical cabinet	10	Each	Rs7, 946
319		19	186-21980	Over current relay	634653000000171	6045500000448/00	Electrical cabinet	10	Each	Rs7, 834
320		20	186-22000	GPS host	634653000000178	6045500000448/00	Electrical cabinet	5	Each	Rs51, 022
321		21	186-22020	TM fault cut-off switch	634653000000127	6045500000448/00	Electrical cabinet	120	Each	Rs80, 582
322		22	186-22030	3UR components	60465070000448	6045500000448/00	Auxiliary converter cabinet	6	Each	Rs18, 359
323		23	186-22060	Knife switch	634653000000001	6045500000448/00	Electrical cabinet	6	Each	Rs2, 437
324		24	186-22110	DC74V/(DC24V, DC14V) power supply	634653000000176	6045500000448/00	Electrical cabinet	30	Each	Rs2, 015
325		25	186-22180	46 CORE SOCKET	634523000000040	6045500000448/00	electric compartment	40	Each	Rs30, 550
326		26	186-22280	overvoltage suppressor	634653000000160.007	6346500000448/00	Contactors	50	Each	Rs6, 995
327		27	186-22350	37-core connector socket	634793000000060	6046500000448/00	Micro cabinet	6	Each	Rs6, 905
328		28	186-22370	Gateway	634653000000097	6046500000448/00	Micro cabinet	15	Each	Rs52, 723
329		29	186-22570	Pressure switch(120kPa~200kPa)	633003000000001	60308060000448	pressure switch unit	40	Each	Rs67, 152
330		30	186-22580	Pressure switch(300kPa~400kPa)	633003000000003	60308060000448	pressure switch unit	40	Each	Rs14, 550
331		31	186-22860	Headlamp	634503000000025	6045900000449	Body electrical equipment	110	Each	Rs1, 094, 773
332		32	186-23050	Magnetic cutting resistance	634653000000182	6045500000449	Electrical cabinet	10	Each	Rs3, 917
333		33	186-23060	Magnetic cutting resistance	634653000000181	6045500000449	Electrical cabinet	10	Each	Rs280
334		34	186-23070	Over current relay	634653000000173	6045500000449	Electrical cabinet	10	Each	Rs336
335		35	186-23080	Earthing switch	634653000000126	6045500000449	Electrical cabinet	10	Each	Rs7, 946
336		36	186-23090	1092mm digital to analog	634653000000159	6045500000449	Electrical cabinet	5	Each	Rs224

				conversion box								
337		37	186-23100	Power (DC74V/DC24V/DC14V)	63465300000183	60455000000449	Electrical cabinet	10	Each	Rs839		
338		38	186-23160	Main And Auxiliary Generator	63202300000012	60202070000449-00	Main and auxiliary generators	1	Each	Rs140		
339		39	186-23340	sensor at gear wheel T05 (SF)	63223300000003.027	63223300000003	Ventilator motor	40	Each	Rs33, 576		
340		40	186-34840	Loco electric heater.	63153300000006	60153000000448/00	Body electrical equipment	10	Each	Rs2, 798		
341		41	186-34910	Broad Casting Station	63451300000074	60451000000448/00	Console	10	Each	Rs33, 576		
342		42	186-34920	radio microphone	63451300000075	60451000000448/00	Console	10	Each	Rs6, 715		
343		43	186-34960	operating desk lamp	63451300000003	60451000000448/00	Console	15	Each	Rs1, 259		
344		44	186-34970	Diode Assembly	60451130000444	60451000000448/00	Diode assembly	15	Each	Rs12, 591		
345		45	186-35010	Electric heating glass universal switch	63465300000146	60451000000448/00	Console	5	Each	Rs336		
346		46	186-35020	Front and rear light control switch	63465300000148	60451000000448/00	Console	20	Each	Rs1, 343		
347		47	186-35030	Rear headlight control switch	63465300000138	60451000000448/00	Console	20	Each	Rs1, 679		
348		48	186-35040	Magnetic cutting resistance changeover switch	63465300000174	60451000000448/00	Console	10	Each	Rs839		
349		49	186-35050	Cab light changeover switch	63465300000134	60451000000448/00	Console	10	Each	Rs672		
350		50	186-35060	Driver fan switch	63465300000135	60451000000448/00	Console	10	Each	Rs168		
351	Spl-34-08	1	186-35250	Magnetic lamp holder (screw)	63451300000051	60455000000448/00	Electrical cabinet	10	Each	Rs560		
352		2	186-35270	Resistance	63465300000188	60455000000448/00	Electrical cabinet	10	Each	Rs6, 156		
353		3	186-35280	Cooling fan direct throw switch	63465300000145	60455000000448/00	Electrical cabinet	15	Each	Rs1, 007		
354		4	186-35290	Undercarriage light rotary switch	63465300000141	60455000000448/00	Electrical cabinet	20	Each	Rs1, 679		
355		5	186-35300	Body light rotary switch	63465300000140	60455000000448/00	Electrical cabinet	20	Each	Rs1, 679		
356		6	186-35430	Resistance	63465300000162	60465000000448/00	Resistor component	10	Each	Rs560		
357		7	186-36120	AF185 contactor	63479300000047	60479000000448/00	Auxiliary converter cabinet	50	Each	Rs51, 763		
358		8	186-36130	T3NR100 circuit breaker	63479300000049	60479000000448/00	Auxiliary converter cabinet	25	Each	Rs4, 197		
359		9	186-36620	Locomotive No. lights	63450300000022	60450000000448/00	Body electrical equipment	50	Each	Rs13, 430		
360		10	186-36650	No mesh light	63450300000020	60450000000448/00	Body electrical equipment	200	Each	Rs11, 192		
361		11	186-36830	43 core reconnection socket.	63452300000031	60452000000448/00	MULTIPLE CONNECTOR	20	Each	Rs112		
362		12	186-37210	speed sensor	63461300000007	60450000000448/00	Diesel Engine	12	Each	Rs16, 788		
363		13	186-39320	car number lamp changeover switch	63465300000149	60455000000449	Electrical cabinet	10	Each	Rs672		
364		14	186-39330	Reconnect headlight changeover switch	63465300000143	60455000000449	Electrical cabinet	15	Each	Rs1, 007		
365		15	186-39340	Lighting rotary switch	63465300000142	60455000000449	Electrical cabinet	9	Each	Rs302		
366		16	186-51150	T3NR125 circuit breaker	63479300000050	60479100000449	Auxiliary converter cabinet	10	Each	Rs6, 995		
367		17	186-51530	TA25DU4.0 Thermo relay.	63479300000056	60479100000449 / drawing SDD23 (2)	Auxiliary converter cabinet	80	Each	Rs53, 722		
368		18	186-51650	connector plug	63450300000008	6046505030000448	Micro cabinet	10	Each	Rs11		
369		19	186-51660	Siemens network connector	63465300000118	6046505030000448	Micro cabinet	80	Each	Rs8, 954		

370		20	186-52040	DC Magnetic Contactor	63450300000043	60465000000448	Electrical cabinet	10	Each	Rs3, 470
371		21	N.S	Condenser	63153000000432	60153050000448/01	AC	5	Each	Rs41, 771
372		22	N.S	Centrifugal Fan	M000001146167	60153050000448/01	AC	5	Each	Rs20, 985
373		23	N.S	Condensing fan	M000001146168	60153050000448/01	AC	10	Each	Rs23, 223
374		24	N.S	Compressor	M000001146211	60153050000448/01	AC	10	Each	Rs279, 800
375		25	N.S	Evaporator	63153000000433	60153050000448/01	AC	5	Each	Rs4, 846
376		26	N.S	Air Conditioner	63153300000005	60153050000448/01	Air Conditioner Installation	5	Each	Rs149, 890
377		27	N.S	Electric connector	63318300000001.038	60320010000449-00	Air dryer assembly	10	Each	Rs11, 508
378		28	N.S	AL9 AC contactor	63479300000048	6047900000449-01	Auxiliary converter cabinet	40	Each	Rs190, 264
379		29	N.S	Three pole automatic switch	63479300000073	60455000000449-00	Auxiliary converter cabinet	40	Each	Rs5, 596
380		30	N.S	Electro pneumatic valve	63465300000120.003	60402000000448/01	Combination contactor	10	Each	Rs13, 732
381		31	N.S	Static contact composition	63465300000120.006	60465000000448/01	Combination contactor	20	Each	Rs8, 394
382		32	N.S	Composition of moving contacts	M000001687155	60465000000448/01	Combination contactor	20	Each	Rs10, 632
383		33	N.S	Auxiliary contact	63465300000120.014	60465000000448/01	Combination contactor	30	Each	Rs10, 912
384		34	N.S	radio station	630003000003900	60451000000448-02	Console	10	Each	Rs33, 576
385		35	N.S	QKW5 snap switch	63465300000160.006	60465000000448-01	Contact	50	Each	Rs4, 197
386		36	N.S	Guide seat	63465300000160.010	60465000000449-01	Contact	50	Each	Rs5, 596
387		37	N.S	Armature	63465300000160.011	60465000000449-01	Contact	20	Each	Rs634, 566
388		38	N.S	return spring	63465300000160.025	60465000000449-01	Contact	50	Each	Rs2, 798
389		39	N.S	Contact assembly	634653000000337	60465000000449-01	Contact	100	Each	Rs83, 940
390		40	N.S	small lock spring	63465300000160.036	60465000000449-01	Contact	50	Each	Rs140
391		41	N.S	large locking spring	63465300000160.037	60465000000449-01	Contact	50	Each	Rs280
392		42	N.S	rubber piston ring	63465000000446	60465000000449-01	Contact	30	Each	Rs336
393		43	N.S	Interrupter components	63465300000160.001	60465000000449-01	DC Magnetic Contactor	10	Each	Rs8, 394
394		44	N.S	lock handle	63465300000160.002	60465000000449-01	DC Magnetic Contactor	10	Each	Rs1, 119
395		45	N.S	Cam	M000001687152	60465000000449-01	DC Magnetic Contactor	10	Each	Rs3, 370
396		46	N.S	long stem screw	63465300000160.014	60465000000449-01	DC Magnetic Contactor	20	Each	Rs224
397		47	N.S	Coil	M000000817011	60465000000449-01	DC Magnetic Contactor	10	Each	Rs81
398		48	N.S	Tie rod	63465300000160.016	60465000000449-01	DC Magnetic Contactor	4	Each	Rs672
399		49	N.S	Braided Wire Assemblies	63465300000160.019	60465000000449-01	DC Magnetic Contactor	5	Each	Rs5, 876
400		50	N.S	Spindle	63465300000160.020	60465000000449-01	DC Magnetic Contactor	10	Each	Rs18, 086
401	Spl-34-09	1	N.S	Moving contact assembly	M000000817012	60465000000449-01	DC Magnetic Contactor	10	Each	Rs1, 760
402		2	N.S	curved leaf spring	63465300000160.030	60465000000449-01	DC Magnetic Contactor	10	Each	Rs1, 760
403		3	N.S	capacitance	63465300000287	60451000000449-01	Diode assembly	5	Each	Rs1, 119
404		4	N.S	freewheeling diode	63449100001539	60451000000449-01	Diode assembly	10	Each	Rs3, 637
405		5	N.S	resistance	M000001024143	60451000000449-01	Diode assembly	5	Each	Rs23, 693
406		6	N.S	snap switch	63450300000340	60451100000449-00	Driver Controller	26	Each	Rs2, 182
407		7	N.S	snap switch	63451000000226	60451100000449-00	Driver Controller	20	Each	Rs1, 679

408		8	N.S	Shrapnel components	M000001152856	60451100000449-00	Driver Controller	10	Each	Rs672
409		9	N.S	potentiometer	M000001152823	60451100000449-00	Driver Controller	10	Each	Rs6, 156
410		10	N.S	A printed circuit board	M000001152857	60451100000449-00	Driver Controller	10	Each	Rs4, 197
411		11	N.S	master controller	63451300000091	60451100000449-00	Driver Controller	5	Each	Rs54, 972
412		12	N.S	self load knife switch	63465300000123	60455000000449-00	Electrical cabinet	12	Each	Rs1, 007
413		13	N.S	indicator light	63465300000163	60455000000448/06	Electrical cabinet	10	Each	Rs12, 410
414		14	N.S	Rear headlight toggle switch	63465300000139	60455000000449-00	Electrical cabinet	10	Each	Rs4, 960
415		15	N.S	Intermediate relay	63465300000286	60455000000449/00	Electrical cabinet	10	Each	Rs15, 043
416		16	N.S	DC Magnetic Contactor	63465300000283	60450000000449/01	Electrical cabinet	7	Each	Rs3, 601
417		17	N.S	Coil	M000001820352	60318010000448-01	Electro pneumatic valve (74V)	50	Each	Rs406
418		18	N.S	sealing ring(φ10*2.65)	M000000796661	60318010000448-01	Electro pneumatic valve (74V)	50	Each	Rs5, 596
419		19	N.S	sealing ring(φ19*2.65)	M000000801831	60318010000448-01	Electro pneumatic valve (74V)	200	Each	Rs22, 384
420		20	N.S	sealing ring(φ13*2.5)	M000001820351	60318010000448-01	Electro pneumatic valve (74V)	100	Each	Rs11, 192
421		21	N.S	charger module	63643000000016.00	60455000000449-00	Excitation CAB	2	Each	Rs2, 798
422		22	N.S	Wave filter	63464300000016.005	60464000000448/00	Excitation CAB	10	Each	Rs64, 986
423		23	N.S	Control Line Filter Components	63464300000016.011	60464000000448/00	Excitation CAB	10	Each	Rs6, 715
424		24	N.S	Fan capacitor	63464300000016.021	60464000000448/00	Excitation CAB	15	Each	Rs3, 740
425		25	N.S	Breaker	63464300000016.110	60464000000448/00	Excitation CAB	15	Each	Rs4, 617
426		26	N.S	Filter	63464300000016.212	60464000000448/00	Excitation CAB	10	Each	Rs560
427		27	N.S	Relay	63464300000016.112	60464000000448/00	Excitation CAB	10	Each	Rs839
428		28	N.S	Wirewound resistors	63464300000016.027	60464000000449/00	Excitation CAB	10	Each	Rs140
429		29	N.S	fast fuse	63464300000016.028	60464000000448/00	Excitation CAB	15	Each	Rs210
430		30	N.S	Lead sleeve assembly	63451300000072.006	60451000000449/01	Foot switch	5	Each	Rs56
431		31	N.S	Spring	63451300000072.007	60451000000449/01	Foot switch	5	Each	Rs20
432		32	N.S	Spring tab	63451300000072.008	60451000000449/01	Foot switch	10	Each	Rs84
433		33	N.S	S804bSnap switch S804b	63450300000342	60451000000448-02	Foot switch	10	Each	Rs1, 399
434		34	N.S	Limit nail	63451300000072.012	60451000000448-02	Foot switch	10	Each	Rs280
435		35	N.S	M6 Lock nut M6	63451300000072.013	60451000000448-02	Foot switch	10	Each	Rs35
436		36	N.S	small binocular marker light	63452300000113	60452000000448-00	Frame electrical	60	Each	Rs11, 752
437		37	N.S	pin Assembly 46 pin socket	63452300000040.003	60465000000449/01	Frame electrical	600	Each	Rs197, 293
438		38	N.S	Cab headlight glass	63153200000034	60153000000448/02	glass installation	40	Each	Rs4, 477
439		39	N.S	cable 7m		60452000000448/00	Light and multiple unit assembly	15	Each	Rs1, 007
440		40	N.S	double needle speedometer	63449100001881	60451100000449-01	Meter module	5	Each	Rs11, 169
441		41	N.S	Slotted two-needle ammeter	M000001153135	60451100000449-01	Meter module	5	Each	Rs4, 897
442		42	N.S	Slotted two-needle ammeter	63449100001923	60451100000449-01	Meter module	5	Each	Rs4, 897
443		43	N.S	status indicator unit	63460300000068.007	60451100000449-01	Meter module	20	Each	Rs23, 503
444		44	N.S	9-core serial port plug and socket	63451300000063	60451100000449-01	Meter module	10	Each	Rs3, 078

445		45	N.S	DC motor	63354000000011	60454000000449-01	Resistance braking cabinet	3	Each	Rs57, 279
446		46	N.S	Resistance unit 1	63453000000011	60454000000448-01	Resistance braking cabinet	30	Each	Rs142, 156
447		47	N.S	Resistance unit 2	63453000000010	60454000000448-01	Resistance braking cabinet	10	Each	Rs47, 385
448		48	N.S	Resistance unit 3	63453000000009	60454000000448-01	Resistance braking cabinet	10	Each	Rs47, 385
449		49	N.S	Resistance unit 1	63453000000014	60454000000448-01	Resistance braking cabinet	25	Each	Rs118, 463
450		50	N.S	Resistance unit 2	63453000000013	60454000000449-01	Resistance braking cabinet	15	Each	Rs71, 078
451	Spl-34-10	1	N.S	Resistance unit 3	63453000000012	60454000000449-01	Resistance braking cabinet	15	Each	Rs71, 078
452		2	N.S	RC board assembly	63450300000636	60457100000449-00	Silicon rectifier cabinet	20	Each	Rs11, 192
453		3	N.S	toggle switch	M00000817008	60451100000449-01	Toggle switch assembly	5	Each	Rs959
454		4	N.S	toggle switch	M000001035500	60451100000449-01	Toggle switch assembly	10	Each	Rs2, 049
455		5	N.S	O-ring	63300300000007.01	60310000000448-01	Vent valve (DC74V)	15	Each	Rs180
456		6	N.S	Digital display	63451300000083.005	60451100000449-01	Wind meter module	5	Each	Rs2, 099
457		7	N.S	5A protective tube F5A250V/5*20	M000001126159	60308090000448-00	wiper control box	10	Each	Rs1, 399
458		8	N.S	3A protective tube F3A250V/5*20	M000001126160	60308090000448	wiper control box	10	Each	Rs1, 119
459		9	N.S	electric controller	M000001146135	60317000000448-00	wiper control box	10	Each	Rs95, 205
460		10	N.S	solenoid valve	M000001146132	60317000000448-00	wiper control box	10	Each	Rs5, 483
461		11	N.S	Electropneumatic valve	M000001435094	60465000000448-01	Combined contactor	20	Each	Rs27, 980
462		12	N.S	Spring	63465000000444	60465000000448-01	Combined contactor	10	Each	Rs200
463		13	N.S	pin puller	63449100000917	PARTS NUMBER TAKEN FROM CRRC XIANG.	Tool for electrical connectors	15	Each	Rs29, 379
464		14	N.S	pin puller	63000725000319		Tool for electrical connectors	15	Each	Rs29, 379
465		15	N.S	pin puller	60902180027777-00		Tool for electrical connectors	10	Each	Rs19, 586
466		16	N.S	pin puller	6090222027777-00		Tool for electrical connectors	10	Each	Rs19, 586
467		17	N.S	Main engine excitation controller	63464000000040	60450000000448/00	Excitation charging cabinet	5	Each	Rs97, 930
468		18	N.S	Auxiliary Excitation Controller	63464000000043	60450000000448/00	Excitation charging cabinet	5	Each	Rs69, 950
469		19	N.S	fan assembly	63464000000034	60450000000448/00	Excitation charging cabinet	60	Each	Rs251, 820
470		20	N.S	Fuse	63465300000007	60455000000448/00	Electric cabinet	12	Each	Rs4, 771
471		21	N.S	IGBT component	63479300000042.009	60479000000448/00	110kW converter module	150	Each	Rs528, 822
472		22	N.S	Bearing Assembly NJHJ2230	63202300000012.041	63202300000012	-	20	Each	Rs60, 437
473		23	N.S	Bearing Assembly NU-330	63202300000012.053	63202300000012	-	20	Each	Rs60, 437
<b>Part List of C-175 Diesel Engine For ZCU-30 DE Locos</b>										
474		24	186-37470	Crankshaft AS	3567064	359-0939	Crankshaft GP	2	Each	Rs727, 480
475		25	186-23370	Gasket	4H7869	257-2143	Cover GP-F	48	Each	Rs537
476		26	186-23500	Washer-Hard	5P8245	121-3552	Adapter GP-Exhaust Diffuser	80	Each	Rs112
477		27	186-24320	Seal	2720759	8N-8510	Cover GP-Cylinder Block	128	Each	Rs1, 433
478		28	186-25770	Seal-O-Ring	8F9516	153-7209	Sensor GP-Speed	8	Each	Rs90

479		29	186-26550	Seal-O-Ring	2385080	101-1246	Lines GP-Fuel Collector	8	Each	Rs4, 477
480		30	186-26900	Breather AS	3883276	449-0970	Breather GP	16	Each	Rs10, 744
481		31	186-26930	PUMP GP-PRELUBE	9Y6016	244-5544 / 60201000000449	PUMP GP-PRELUBE (64V DC)	8	Each	Rs21, 489
482		32	186-27280	Regulator	6I4953	SEBP6793-08 / 132/13862933/2	REGULATOR GP TEMPERATURE	100	EACH	Rs17, 108
483		33	186-27420	Bearing-Connecting Rod	3838347	3779943	Conneting Rod GP	72	EACH	Rs32, 233
484		34	186-27440	Bearing-Connecting Rod	3838348	3779944	Conneting Rod GP	72	EACH	Rs32, 233
485		35	186-27470	Cap AS-Engine Oil Filler	7L4447	(366-0404)	Cover GP-Cylinder Block	3	Each	Rs1, 007
486		36	186-27490	Cover	2515522	(366-0404)	Cover GP-Cylinder Block	48	Each	Rs29, 547
487		37	186-27570	Seal-Valve Cover	2300940	3666716	Cover GP-Valve Mechanism	744	Each	Rs8, 327
488		38	186-27590	Cover	3784060	366-6716	Cover GP-Valve Mechanism	10	EACH	Rs6, 156
489		39	186-27790	Washer hard	1520195	3287084	CYLINDER HEAD GP	296	Each	Rs8, 282
490		40	186-27800	Gasket-Combustion	2589925	(328-7084)	Cylinder Head GP	200	Each	Rs3, 358
491		41	186-27810	BOLT-12 Point Head	2747701	(328-7084)	Cylinder Head GP	352	Each	Rs1, 970
492		42	186-27820	Seal-Integral	3708028	(328-7084)	Cylinder Head GP	128	Each	Rs1, 433
493		43	186-27830	Cyliner Head Gp	3287083	3287084	CYLINDER HEAD GP	32	Each	Rs322, 330
494		44	186-27910	Valve-Ball	2416182	(254-2064)	Drain GP-Engine Oil	8	Each	Rs224
495		45	186-27980	Seal-O-Ring	1654852	(346-8870)	Gear GP-Front	11	Each	Rs123
496		46	186-28020	Seal-O-Ring	2594598	362-2905	Gear GP-Front	10	EACH	Rs112
497		47	186-28030	Seal-O-Ring	5P8118	(346-8870)	Housing GP-Front	48	Each	Rs5, 641
498		48	186-28060	Gear-Flywheel	2330643	(370-6546)	Flywheel GP	8	Each	Rs102, 966
499		49	186-28110	Gear AS-Idler	2545886	(327-0824)	Gear GP-Rear	8	Each	Rs32, 233
500		50	186-28150	Shaft-Cluster Gear	3287113	(327-0824)	Gear GP-Rear	2	Each	Rs1, 567
501	Spl-34-11	1	186-28300	Seal-O-Ring	6V4297	(352-8227)	Pan GP-Oil	8	Each	Rs90
502		2	186-28310	Gasket-Oil Pan	3318554	(352-8228)	Pan GP-Oil	8	Each	Rs134
503		3	186-28370	Jet AS-Piston Cooling	3047846	(307-4407)	Piston GP	16	Each	Rs1, 791
504		4	186-28390	Plug	3E2331	(294-5659)	Plug GP-Exhaust Manifold	128	Each	Rs3, 581
505		5	186-28460	Pushrod	3779801	(325-2666)	Valve Mechanism GP	7	Each	Rs7, 051
506		6	186-28490	Rocker Arm AS	2839340	(325-2666)	Lines GP-Engine Oil	32	Each	Rs44, 768
507		7	186-28510	Shaft AS-Rocker Arm	3252663	325-2666	Valve Mechanism GP	260	EACH	Rs363, 740
508		8	186-28530	Dowel	2721039	(325-2666)	Lines GP-Engine Oil	100	Each	Rs2, 798
509		9	186-28540	Dowel	3670492	(325-2666)	Lines GP-Engine Oil	100	Each	Rs2, 798
510		10	186-28630	Spacer	910081	(358-3086)	Lines GP-Aftercooler Air	128	Each	Rs716
511		11	186-28680	Seal-O-Ring	5P4268	(358-3086)	Filter GP-Engine Oil	8	Each	Rs90
512		12	186-28800	Tube As Oil Guage	2464918	(256-5982)	Gauge GP-Oil Level (Dipstick)	5	Each	Rs420
513		13	186-28920	Valve-Bypass	3624241	(327-0850)	Lines GP-Engine Oil	8	Each	Rs358
514		14	186-28990	Clip	6V5039	350-4535	Wiring GP-Engine	8	EACH	Rs224

515		15	186-29000	Clip	6V5040	350-4535	Wiring GP-Engine	8	EACH	Rs224
516		16	186-29170	Hose AS	3766757	3767387	Lines GP-Turbocharger Oil	44	Each	Rs1, 231
517		17	186-29190	Hose AS	3856065	3767387	Lines GP-Turbocharger Oil	60	Each	Rs1, 679
518		18	186-29200	Tee	2877308	(376-7387)	Lines GP-Turbocharger Oil	30	Each	Rs504
519		19	186-29210	Grommet	3537953	(376-7387)	Lines GP-Turbocharger Oil	8	Each	Rs90
520		20	186-29230	Clip	8T1889	(376-7387)	Thermocouple GP	27	Each	Rs755
521		21	186-29250	Connector	8T7495	(376-7387)	Lines GP-Turbocharger Oil	40	Each	Rs1, 343
522		22	186-29280	Hose As	3489582	3489580	LINES GP-OIL SUPPLY	48	EACH	Rs1, 343
523		23	186-29320	Tube As	3489583	3653172	LINES GP-PRELUBRICATION	34	Each	Rs2, 854
524		24	186-29340	Clip	5P7464	(365-3172)	Lines GP-Pr	16	Each	Rs448
525		25	186-29350	Clip	5P7465	(365-3172)	Lines GP-Pr	16	Each	Rs448
526		26	186-29370	Union	6V8734	(365-3172)	LINE GP PRELUBE	8	Each	Rs90
527		27	186-29380	Seal-O-Ring	2385084	(365-3172)	Lines GP-Pr	16	Each	Rs179
528		28	186-29530	Seal-O-Ring	3E6751	(352-8230)	Regulator GP-Oil Pressure	8	Each	Rs90
529		29	186-29540	Seal-O-Ring	2697885	(352-8230)	Lines GP-Engine Oil	48	Each	Rs537
530		30	186-29560	Bolt	8T0643	(352-8230)	Lines GP-Aftercooler Air	248	Each	Rs139
531		31	186-29580	Shim	1777130	(354-4924)	Valve GP-Pressure Control	28	Each	Rs157
532		32	186-29590	Stem	2655181	(354-4924)	Valve GP-Pressure Control	8	Each	Rs90
533		33	186-29600	Spring	2856589	(354-4924)	Valve GP-Pressure Control	8	Each	Rs134
534		34	186-29610	Spring	2884597	(354-4924)	Valve GP-Pressure Control	8	Each	Rs134
535		35	186-29620	Stem	2996202	(354-4924)	Valve GP-Pressure Control	8	Each	Rs90
536		36	186-29640	Seal-O-Ring	3602963	(354-4924)	Valve GP-Pressure Control	8	Each	Rs90
537		37	186-29670	Gasket	2473796	(348-8249)	Cooler GP-Engine Oil	32	Each	Rs537
538		38	186-29710	Hose AS	3171130	(304-7944)	Lines GP-Turbocharger Water	130	Each	Rs4, 365
539		39	186-29730	Hose AS	3307461	(304-7944)	Lines GP-Turbocharger Water	8	Each	Rs269
540		40	186-29740	Hose & Tube AS	3835532	(304-7944)	Lines GP-Turbocharger Water	8	Each	Rs895
541		41	186-29780	Tee-Swivel	6V9839	(304-7944)	Lines GP-Turbocharger Water	8	Each	Rs179
542		42	186-29800	Plug	8C4423	(304-7944)	Lines GP-Turbocharger Water	16	Each	Rs448
543		43	186-29930	Tube As	3468856	3468890	LINES GP-WATER	36	EACH	Rs403
544		44	186-29940	Coupling AS	3599855	493-0564	Lines GP-Water	7	EACH	Rs1, 567
545		45	186-29970	Tube As	2877027	3468891	LINES GP-WATER	34	EACH	Rs2, 854
546		46	186-29990	Tube As	3252661	3468892	LINES GP-WATER	68	Each	Rs5, 708
547		47	186-30020	Gasket	3019717	(346-8893)	Lines GP-Water	8	Each	Rs134
548		48	186-30110	Stud-Taperlock	8T7044	(250-6720)	Pump GP-Auxiliary Water	24	Each	Rs27
549		49	186-30210	Pump GP-Water	3496215	(313-7600)	Pump GP-Water	8	Each	Rs62, 675
550		50	186-30230	Connector	2286046	331-3675	Lines GP-Fuel Injection	16	EACH	Rs358
551	Spl-34-12	1	186-30470	Core AS-Aftercooler	3559694	(355-9692)	Aftercooler GP-Water	5	Each	Rs11, 192
552		2	186-30530	Seal-O-Ring	2911911	(287-1530)	Air Cleaner GP	8	Each	Rs90



553		3	186-30550	Clamp Hose	5P0600	(288-8380)	LINE GP AIR	32	Each	Rs1, 791
554		4	186-30560	Clamp Reducer	5P3860	113-3307	LINE GP AIR	32	EACH	Rs1, 791
555		5	186-30570	Hose-Reducer	1131587	(288-8380)	Air Cleaner GP	128	Each	Rs2, 865
556		6	186-30640	Nut	6V8149	288-8782	Adapter GP-Exhaust Diffuser	128	Each	Rs72
557		7	186-30660	Clamp AS	2473393	3245552	Fitting GP-Exhaust	200	EACH	Rs11, 192
558		8	186-30670	Bellows AS	3157909	(324-5552)	Fitting GP-Exhaust	80	Each	Rs158, 926
559		9	186-30680	Clamp-Tube	1388240	(336-9854)	Indicator GP-Air Filter Change	50	Each	Rs2, 798
560		10	186-30700	Tube AS	3369847	(336-9854)	Indicator GP-Air Filter Change	5	Each	Rs560
561		11	186-30710	Tube AS	3369850	(336-9854)	Indicator GP-Air Filter Change	5	Each	Rs140
562		12	186-30720	Tube AS	3369851	(336-9854)	Indicator GP-Air Filter Change	5	Each	Rs560
563		13	186-30730	Tube AS	3369852	(336-9854)	Indicator GP-Air Filter Change	5	Each	Rs420
564		14	186-30740	Connector	3295462	(336-9854)	Indicator GP-Air Filter Change	20	Each	Rs560
565		15	186-30770	Seal-O-Ring	2160881	(293-5007)	Lines GP-Aftercooler Air	32	Each	Rs358
566		16	186-30780	Bellows	2643088	(293-6557)	Lines GP-Aftercooler Air	68	Each	Rs97, 035
567		17	186-30820	Manifold	2526098	2896083	MANIFOLD GP-EXHAUST	12	Each	Rs25, 048
568		18	186-30830	Manifold	2526099	2896083	MANIFOLD GP-EXHAUST	14	Each	Rs29, 222
569		19	186-30850	Bolt-High Temperature	8T7353	(289-6083)	Manifold G	235	Each	Rs6, 575
570		20	186-30860	Manifold	2419813	2896087	MANIFOLD GP-EXHAUST	14	Each	Rs29, 222
571		21	186-30870	Manifold	2419814	2896087	MANIFOLD GP-EXHAUST	14	Each	Rs29, 222
572		22	186-30960	Elbow	3450881	(349-3980)	Manifold GP-Exhaust	16	Each	Rs1, 074
573		23	186-31020	Gasket	2589926	(325-2655)	Manifold GP-Inlet	128	Each	Rs2, 149
574		24	186-31040	Manifold-Air Inlet	3222771	325-2655	Manifold GP-Inlet	10	EACH	Rs14, 550
575		25	186-31050	Manifold-Air Inlet	3222772	325-2655	Manifold GP-Inlet	10	EACH	Rs14, 550
576		26	186-31060	Manifold-Air Inlet	3096472	(325-2656)	Manifold GP-Inlet	16	Each	Rs23, 279
577		27	186-31100	Seal-O-Ring	8C3107	3643758	Mounting GP-Turbocharger	272	Each	Rs3, 044
578		28	186-31110	Turbo charger	3435687	3226830	TURBOCHARGER GP	12	Each	Rs975, 450
579		29	186-31320	Bolt-Socket Head	8T2223	(344-2927)	Injector GP-Fuel	64	Each	Rs72
580		30	186-31330	Valve-Check	3466089	3287087	Lines GP-Fuel Collector	14	Each	Rs3, 134
581		31	186-31340	Tube AS	3287088	(328-7087)	Lines GP-Fuel Collector	10	Each	Rs839
582		32	186-31350	Tube AS	3287089	(328-7087)	Lines GP-Fuel Collector	10	Each	Rs560
583		33	186-31360	Tee-Swivel	1102218	(328-7087)	Lines GP-Fuel Collector	50	Each	Rs839
584		34	186-31370	Connector	2270120	(328-7087)	Lines GP-Fuel Collector	40	Each	Rs1, 119
585		35	186-31390	Hose AS	3824398	(336-3623)	Lines GP-Filtter	41	Each	Rs918
586		36	186-31430	Line as Fuel	3416785	304-9602	Fuel System	76	Each	Rs8, 506
587		37	186-31480	Tube AS	3681458	(327-0844)	Lines GP-Fuel Injection	8	Each	Rs1, 119
588		38	186-31520	Kit-Fuel Lines	3879331	(327-0844)	Lines GP-Fuel Injection	8	Each	Rs5, 372
589		39	186-31530	Tube AS	3313674	(331-3675)	Lines GP-Fuel Injection	200	Each	Rs16, 788
590		40	186-31570	Seal-O-Ring	3170808	3313675	Lines GP-Fuel Injection	72	Each	Rs806

591		41	186-31650	Manifold-Fuel	3954169	422-2371	Manifold GP-Fuel	64	EACH	Rs17, 191
592		42	186-31700	Seal-O-Ring	3P1156	328-7085	Mounting GP-Pump	10	EACH	Rs112
593		43	186-31860	Pump AS-Fuel Transfer	3779341	(313-6693)	Pump GP-Fuel Transfer	8	Each	Rs81, 612
594		44	186-31880	Line Gp Fuel Injection	3686875	2589936	RAIL GP-FUEL	188	Each	Rs26, 301
595		45	186-31900	Kit-Fuel Lines	3637080	(327-7734)	Lines GP-Fuel Injection	128	Each	Rs85, 955
596		46	186-37320	Nut	2Y5829	348-6914	Pump GP-Auxiliary Water	24	Each	Rs13
597		47	186-37480	Plate-Thrust	3414708	359-0939	Crankshaft GP	16	Each	Rs895
598		48	186-37490	Bearing-Main Cam Shaft	2865801	359-0939	Crankshaft GP	27	Each	Rs63, 761
599		49	186-37520	Dowel-Hollow	3843712	370-4042	Cylinder Block GP	50	Each	Rs2, 798
600		50	186-37530	Dowel	4N0683	370-4042	Cylinder Block GP	32	Each	Rs2, 149
601	Spl-34-13	1	186-37540	Dowel	6V3535	370-4042	Cylinder Block GP	150	Each	Rs10, 073
602		2	186-37640	Washer-Hard	5P6604	364-3909	Fastener GP-Damper	68	EACH	Rs19, 026
603		3	186-37710	Gear AS-Idler	3072402	362-2905	Gear GP-Front	16	EACH	Rs49, 245
604		4	186-37800	Seal-O-Ring	5P8119	362-2905	Gear GP-Front	8	Each	Rs90
605		5	186-37900	Seal-Face	3637294	385-4901	Housing GP-Flywheel	10	Each	Rs280
606		6	186-37970	Seal-Integral	2424100	357-4826	Lifter GP-Valve	60	Each	Rs1, 679
607		7	186-38090	Seal-O-Ring	6V3835	252-8227	Pan GP-Oil	12	Each	Rs134
608		8	186-38180	Bolt	6V5842	352-8228	Lines GP-Aftercooler Air	128	Each	Rs143
609		9	186-38190	Bolt	8T0644	352-8228	Lines GP-bypass.	64	Each	Rs86
610		10	186-38240	Seal-O-Ring	8T7525	322-2927	Sensor GP-Speed	142	Each	Rs2, 384
611		11	186-38290	Seal-O-Ring	2287092	355-0014	Plug GP-Engine	80	Each	Rs895
612		12	186-38500	Valve shut off	6V7238	358-3086	Filter GP engine oil	5	Each	Rs3, 358
613		13	186-38510	Clamp Hose	9M7959	3594181	FUMES DISPOSAL GP	10	EACH	Rs112
614		14	186-38530	Gauge As Oil Level (Dipstick)	3788287	3788284	GAUGE GP-OIL LEVEL	20	Each	Rs4, 477
615		15	186-38550	Seal-O-Ring	6V1196	3270850	Lines GP-Engine Oil	40	Each	Rs448
616		16	186-38600	Flange	9Y2099	327-0851	Lines GP-Engine Oil	40	Each	Rs1, 119
617		17	186-38620	Seal-O-Ring	6V8002	327-0851	Valve GP-Pressure Control	16	Each	Rs179
618		18	186-44600	Sensor GP-Pressure	3066834	350-4531	Sensor GP-Engine	69	Each	Rs30, 890
619		19	186-44790	Clip	5P7466	377-3015	Wiring GP-E	8	Each	Rs134
620		20	186-44800	Clip	5P7467	377-3015	Wiring GP-E	8	Each	Rs90
621		21	186-44830	Grommet	5P8112	377-3015	Wiring GP-E	48	Each	Rs1, 074
622		22	186-44840	Grommet	6V0545	377-3015	Wiring GP-E	56	Each	Rs1, 254
623		23	186-44870	Clip	7G5984	377-3015	Fastener GP-Wiring Harness	32	Each	Rs537
624		24	186-44880	Clip	7G5985	377-3015	Fastener GP-Wiring Harness	32	Each	Rs448
625		25	186-44890	Grommet	8T3440	377-3015	Fastener GP-Wiring Harness	32	Each	Rs716
626		26	186-44950	Harness ZCU-30 RH	3504528			10	EACH	Rs672
627		27	186-45070	Harness ZCU30 LH	3504527			10	EACH	Rs1, 007
628		28	186-45150	Sensor-Temperature	2380112	307-8716	Sensor GP-Engine	84	Each	Rs56, 408

629		29	186-45160	Sensor GP-Pressure	2871866	307-8716	Sensor GP-Engine	23	Each	Rs14, 158
630		30	186-45190	Seal-O-Ring	2168579	322-3429	Sensor GP-Engine	5	Each	Rs84
631		31	186-45210	Sensor GP-Pressure	2746721	322-3429	Sensor GP-Temp & Press	56	Each	Rs627
632										
633		33	186-45250	Adapter	3142490	334-5951	electrical and starting system	64	Each	Rs4, 298
634		34	186-45310	Sensor AS-Pressure	3837548	346-8859	Lines GP-Engine Oil	16	Each	Rs9, 849
635		35	186-45350	Sensor As Speed (Primary)	1918303	244-5544	PUMP GP-PRELUBE (64V DC)	8	EACH	Rs5, 372
636		36	186-45400	Harness AS-Sensor	2503024	247-1893	Sensor GP-Speed	8	Each	Rs806
637		37	186-45500	Sensor AS-Speed	1166680	278-7303	Sensor GP-Speed	18	Each	Rs302
638		38	186-45510	Clip	1305300	278-7303	Thermocouple GP	10	Each	Rs168
639		39	186-45530	Washer-Hard	8T7934	278-7303	Manifold G	512	Each	Rs29
640		40	186-45560	Sensor GP-Speed	3306572	330-5185	Lines GP-Fuel Collector	18	Each	Rs12, 087
641		41	186-45570	Sensor GP-Speed	3324729	330-5185	Lines GP-Fuel Collector	18	Each	Rs12, 087
642		42	186-45630	Thermowell	3257862	263-6779	Thermocouple GP	26	Each	Rs21, 824
643		43	186-45760	Harness AS-Engine	3223428	350-4535	Wiring GP-Engine	7	Each	Rs783
644		44	186-45770	Harness GP-Engine	3504533	350-4535	Wiring GP-Engine	7	Each	Rs470
645		45	186-45790	Clip	2771873	350-4535	Wiring GP-Engine	8	EACH	Rs90
646		46	186-45810	Clip	4P7429	350-4535	Lines GP-Engine Oil	30	Each	Rs336
647		47	186-45820	Clip	4P8134	350-4535	Wiring GP-Engine	8	Each	Rs134
648		48	186-45950	SWITCH TOGGLE	3012980	350-4536	PUMP GP-PRELUBE (64V DC)	23	Each	Rs644
649		49	186-45970	Harness AS-Pump	3223420	350-4536	Wiring GP-Engine	7	Each	Rs627
650		50	186-45990	Harness GP-Engine	3504534	350-4536	Wiring GP-Engine	7	Each	Rs783
651	Spl-34-14	1	186-46000	Harness As Engine	3504547	350-4536	HARNES AS ENGINE FUEL FILTER.	7	Each	Rs783
652		2	186-46010	Harness As Engine	3563724	350-4536	HARNES AS ENGINE FUEL FILTER.	7	Each	Rs783
653		3	186-46330	Harness AS-Engine	4337669	433-7672	Wiring GP-E	3	Each	Rs336
654		4	186-46340	Harness AS-Engine	4337670	433-7672	Wiring GP-E	3	Each	Rs672
655		5	186-46370	Seal-O-Ring	336034	247-1880	Wiring GP-Unit Injector	148	Each	Rs2, 485
656		6	186-46380	Ring-Retaining	5L4019	247-1880	Wiring GP-Unit Injector	148	Each	Rs1, 656
657		7	N.S	Seal-O-Ring	6V-3603	-	Pump GP-Engine Oil	8	EACH	Rs1, 500
658		8	N.S	Pump GP-Engine Oil	5276204	341-2500	Pump GP-Engine Oil	8	Each	Rs62, 675
659		9	N.S	Flange	1299454	358-3086	Filter GP-Engine Oil	30	Each	Rs15, 109
660		10	N.S	Pump GP-Fuel Injection	5051183	(383-2034)	Pump GP-Fuel Injection	34	Each	Rs285, 396
661		11	N.S	Seal-O-Ring	3S1223	(250-6720)	Pump GP-Auxiliary Water	8	Each	Rs201
662		12	N.S	Pump GP-Water	4160611	(313-7600)	Pump GP-Water	8	Each	Rs53, 722
663		13	N.S	Hose AS	4936731	(313-7600)	Pump GP-Water	8	Each	Rs1, 567
664		14	N.S	COVER	250-6722	250-6720	pump GP auxiliary water	8	Each	Rs53, 722
665		15	N.S	Ring	3449285	327-0850	Lines GP-Engine Oil	128	Each	Rs1, 074
666		16	N.S	Grommet	4540707	359-4181	Fumes Disposal GP	24	Each	Rs2, 019

667		17	N.S	Seal-O-Ring	6R0365	(352-8230)	Lines GP-Engine Oil	16	Each	Rs403
668		18	N.S	Seal-O-Ring	6V6707	(375-7203)	Lines GP-Engine Oil	32	Each	Rs806
669		19	N.S	Gasket	2464924	289-6087	Manifold G	70	Each	Rs4, 137
670		20	N.S	Tube As	11300381	113_0037_1	LINES GP AIR	8	Each	Rs473
671		21	N.S	Tube As	11300391	113_0037_1	LINES GP AIR	8	Each	Rs473
672		22	N.S	Tube As	8T7487	113-0037-1	LINES GP AIR	16	Each	Rs946
673		23	N.S	Clamp-Band	4674241	278-7303	Manifold G	224	Each	Rs276, 009
674		24	N.S	Bellows AS	4853800	278-7303	Manifold G	112	Each	Rs467, 701
675		25	N.S	Manifold-Exhaust	4540688	278-7303	Manifold G	8	Each	Rs55, 935
676		26	N.S	Manifold-Exhaust	4540689	278-7303	Manifold G	8	Each	Rs55, 575
677		27	N.S	Valve GP-Check	1663438	(365-3172)	Lines GP-Pr	8	Each	Rs7, 118
678		28	N.S	Seal-O-Ring	7M8485	(365-3172)	Lines GP-Pr	8	Each	Rs245
679		29	N.S	Valve GP-Pressure Control	3804432	(352-8230)	Regulator GP-Oil Pressure	16	Each	Rs6, 715
680		30	N.S	Hose AS	4181262	(352-8230)	Regulator GP-Oil Pressure	8	Each	Rs1, 567
681		31	N.S	Ring-Backup	0300167	(354-4924)	Valve GP-Pressure Control	8	Each	Rs201
682		32	N.S	Seal-O-Ring	0336028	(354-4924)	Valve GP-Pressure Control	8	Each	Rs90
683		33	N.S	Seal-O-Ring	0336039	(354-4924)	Valve GP-Pressure Control	8	Each	Rs112
684		34	N.S	Shim	1777131	(354-4924)	Valve GP-Pressure Control	5	Each	Rs42
685		35	N.S	Grommet	5P8939	350-4535	Wiring GP-Engine	16	Each	Rs748
686		36	N.S	Clip	7S3916	350-4535	Wiring GP-Engine	16	Each	Rs134
687		37	N.S	Clip	7S3919	350-4535	Wiring GP-Engine	16	Each	Rs134
688		38	N.S	Clamp-Half	4913921	350-4535	Lines GP-Water	24	Each	Rs4, 701
689		39	N.S	Clamp-Half	4913922	350-4535	Lines GP-Water	24	Each	Rs4, 701
690		40	N.S	Clip	2086135	350-4535	Lines GP-Water	16	Each	Rs134
691		41	N.S	Clip	2086136	350-4535	Lines GP-Water	16	Each	Rs161
692		42	N.S	Seal-O-Ring	2629990	350-4535	Lines GP-Water	16	Each	Rs161
693		43	N.S	Clip	6V6782	346-8891	Lines GP-Water	100	Each	Rs979
694		44	N.S	Clip	6V6783	346-8891	Lines GP-Water	100	Each	Rs1, 259
695		45	N.S	Clip	4643828	263-6779	Thermocouple GP	32	Each	Rs303
696		46	N.S	Clamp	1W4161	269-2552	Adapter GP-Exhaust Diffuser	20	Each	Rs5, 036
697		47	N.S	Bolt	6V3823	288-8782	Adapter GP-Exhaust Diffuser	64	Each	Rs1, 612
698		48	N.S	Manifold-Exhaust	4540686	289-6083	Manifold GP-Exhaust	48	Each	Rs333, 343
699		49	N.S	Manifold-Exhaust	4540687	289-6083	Manifold GP-Exhaust	48	Each	Rs333, 343
700		50	N.S	Core AS-Oil Cooler	4910367	(348-8249)	Cooler GP-Engine Oil	16	Each	Rs61, 413
701	Spl-34-15	1	N.S	Cylinder Head GP	5818826	(328-7084)	Cylinder Head GP	128	Each	Rs1, 790, 720
702		2	N.S	Bearing-Connecting Rod	3766458	377-9944	Connecting Rod GP	64	Each	Rs56, 945
703		3	N.S	Bearing-Connecting Rod	3766457	377-9943	Connecting Rod GP	64	Each	Rs56, 945
704		4	N.S	Cylinder Block AS	3704041	370-4042	Cylinder Block GP	1	Each	Rs125, 910

705		5	N.S	Orifice	2487584	370-4042	Cylinder Block GP	16	Each	Rs4, 477
706		6	N.S	Orifice	2487585	370-4042	Cylinder Block GP	48	Each	Rs13, 430
707		7	N.S	Shaft AS	5507773	357-4826	Lifter GP-Valve	64	Each	Rs196, 979
708		8	N.S	Seal-O-Ring	4420177	(355-9692)	Aftercooler GP-Water	16	Each	Rs403
709		9	N.S	Seal-O-Ring	4420176	(355-9692)	Aftercooler GP-Water	16	Each	Rs403
710		10	N.S	Seal	4420178	(355-9692)	Aftercooler GP-Water	8	Each	Rs157
711		11	N.S	Washer Thrust	3755133	348-6914	Camshaft GP	8	Each	Rs201
712		12	N.S	Camshaft AS-Front	4883487	348-6914	Camshaft GP	4	Each	Rs67, 152
713		13	N.S	Camshaft-Rear	4883489	348-6914	Camshaft GP	4	Each	Rs67, 152
714		14	N.S	Injector GP-Fuel	4439454	(344-2927)	Injector GP-Fuel	128	Each	Rs1, 273, 130
715		15	N.S	Turbocharger GP	5129324	322-6830	Turbocharger GP	32	Each	Rs2, 813, 579
716		16	N.S	Connector	3309743	322-6830	Turbocharger GP	32	Each	Rs8, 058
717		17	N.S	Cylinder Pack AS	20R8987	(307-4407)	Piston GP	64	Each	Rs268, 608
718		18	N.S	Cylinder Pack AS	20R8988	(307-4407)	Piston GP	64	Each	Rs268, 608
719		19	N.S	Spacer	4394789	(358-3086)	Lines GP-Aftercooler Air	248	Each	Rs26, 785
720		20	N.S	Bracket	5606311	(349-3980)	Manifold GP-Exhaust	15	Each	Rs4, 197
721		21	N.S	Manifold	4263831	(349-3980)	Manifold GP-Exhaust	15	Each	Rs107, 443
722		22	N.S	Manifold-Exhaust	4807848	(349-3980)	Manifold GP-Exhaust	8	Each	Rs55, 557
723		23	N.S	Clamp-Band	4906439	(349-3980)	Manifold GP-Exhaust	64	Each	Rs210, 231
724		24	N.S	Hose AS	3382513	(304-7944)	Lines GP-Turbocharger Water	8	Each	Rs3, 447
725		25	N.S	Connector	8T7494	(304-7944)	Lines GP-Turbocharger Water	103	Each	Rs8, 237
726		26	N.S	Rocker Arm AS	2839339	(325-2666)	Valve Mechanism GP	12	Each	Rs17, 809
727		27	N.S	Bridge	4483228	(325-2666)	Lines GP-Engine Oil	256	Each	Rs214, 886
728		28	N.S	Hose AS	4314747	346-8859	Lines GP-Vent	8	Each	Rs2, 037
729		29	N.S	Hose	4398614	346-8859	Lines GP-Vent	8	Each	Rs1, 119
730		30	N.S	Tee-Swivel	6V9836	346-8859	Lines GP-Vent	40	Each	Rs10, 073
731		31	N.S	Seal-O-Ring	6D7128	346-8859	Lines GP-Vent	32	Each	Rs288
732		32	N.S	Kit-Fuel Lines	3878014	(327-0844)	Lines GP-Fuel Injection	8	Each	Rs11, 192
733		33	N.S	Kit-Fuel Lines	3878013	(327-0844)	Lines GP-Fuel Injection	8	Each	Rs11, 192
734		34	N.S	Ring	4370012	(327-0844)	Lines GP-Fuel Injection	17	Each	Rs644
735		35	N.S	Seal-O-Ring	3303517	304-9602	Rail GP-Fuel	150	Each	Rs8, 772
736		36	N.S	Rail GP-Fuel	5060093	304-9602	Rail GP-Fuel	6	Each	Rs18, 484
737		37	N.S	Rail GP-Fuel	5060094	304-9602	Rail GP-Fuel	6	Each	Rs18, 484
738		38	N.S	Seal-O-Ring	3E6790	304-9602	Rail GP-Fuel	162	Each	Rs9, 791
739		39	N.S	Kit-Limiter	5060092	304-9602	Rail GP-Fuel	128	Each	Rs374, 067
740		40	N.S	Seal-O-Ring	2955609	304-9602	Rail GP-Fuel	8	Each	Rs546
741		41	N.S	Seal-O-Ring	6V4365	304-9602	Rail GP-Fuel	128	Each	Rs5, 372
742		42	N.S	Grommet	6V0683	(336-3623)	Lines GP-Filter	16	Each	Rs1, 579

743		43	N.S	Hose & Tube AS	4931662	(441-0742)	Lines GP-Fuel Injection	8	Each	Rs11, 805
744		44	N.S	Connector	2270064	(441-0742)	Lines GP-Fuel Injection	5	Each	Rs485
745		45	N.S	Shield-Exhaust	5675769	347-9093	Shield GP-Manifold	8	Each	Rs11, 990
746		46	N.S	Shield-Exhaust	5675770	347-9093	Shield GP-Manifold	8	Each	Rs11, 721
747		47	N.S	Shield-Exhaust	5675771	347-9093	Shield GP-Manifold	8	Each	Rs6, 520
748		48	N.S	Mount-Isolation	8T9655	350-4531	Control & Mtg GP-Engine Elek	60	Each	Rs25, 182
749		49	N.S	Control GP-Unprogrammed	4884875	350-4531	Control & Mtg GP-Engine Elek	2	Each	Rs26, 015
750		50	N.S	Filter Element-Engine Oil	4378239	(358-3086)	Filter GP-Engine Oil	24	Each	Rs4, 701
751	Spl-34-16	1	N.S	Screen AS	5495530	364-3758	Mounting GP-Turbocharger	32	Each	Rs205, 200
752		2	N.S	Plate-Insulator	3732702	274-7711	Mounting GP-Aftercooler	16	Each	Rs1, 621
753		3	N.S	Grommet AS	1P7115	341-6231	PUMP GP FUEL PRIMING	32	Each	Rs2, 691
754		4	N.S	Seal-O-Ring	3468577	394-9596	Damper GP	8	Each	Rs515
755		5	N.S	Kit-Damper	5478981	394-9596	Damper GP	8	Each	Rs515
756		6	N.S	Valve GP-Thermostatic	4942622	387-8211	Valve GP-Thermostatic	8	Each	Rs6, 715
757		7	N.S	Shaft-Idler	2776911	(362-2905)	Gear GP-Front	5	Each	Rs33, 092
758		8	N.S	Screen AS-Filter	5892053	362-2906	Gear GP-Front	8	Each	Rs2, 055
759		9	N.S	Seal-O-Ring	2219937	362-2907	Gear GP-Front	32	Each	Rs2, 059
760		10	N.S	Seal-O-Ring	1241858	366-6716	Cover GP-Valve Mechanism	8	Each	Rs515
761		11	N.S	Screen AS-Suction	3541552	252-8228	Pan GP-Oil	5	Each	Rs17, 594
762		12	N.S	Tool AS	4485087	279-3473	Barring & Mounting GP	5	Each	Rs9, 793
763		13	N.S	Union Adapter	9J6190	(113-0028)	LINE GP VENT	8	Each	Rs157
764		14	N.S	Adapter Elbow	3717205	(113-0028)	LINE GP VENT	9	Each	Rs1, 029
765		15	N.S	Union Flared	307982	(113-0028)	LINE GP VENT	16	Each	Rs1, 119
766		16	N.S	Adapter Tee	0618404	(113-0028)	LINE GP VENT	8	Each	Rs470
767		17	N.S	Bracket As	1130020	(113-0028)	LINE GP VENT	8	Each	Rs38, 984
768		18	N.S	Bracket As	1130021	(113-0028)	LINE GP VENT	8	Each	Rs38, 984
769		19	N.S	Bracket As	1130022	(113-0028)	LINE GP VENT	8	Each	Rs38, 984
770		20	N.S	Hose As	1130023	(113-0028)	LINE GP VENT	8	Each	Rs49, 303
771		21	N.S	Tube As	1130024	(113-0028)	LINE GP VENT	8	Each	Rs183, 898
772		22	N.S	Hose As	1130027	(113-0028)	LINE GP VENT	16	Each	Rs90, 476
773		23	N.S	Adapter STR	2P1278	(113-0028)	LINE GP VENT	10	Each	Rs731
774		24	N.S	Hose Hump	2516235	(288-8380)	LINE GP AIR	32	Each	Rs15, 348
775		25	N.S	Tube As	1130038	(113-0037)	LINE GP AIR	16	Each	Rs277, 562
776		26	N.S	Tube As	1130039	(113-0037)	LINE GP AIR	16	Each	Rs277, 562
777		27	N.S	Seal O Ring	1214345	(113-0037)	LINE GP AIR	32	Each	Rs2, 059
778		28	N.S	Clamp T Bolt 1/4 -28	2338484	(113-0037)	LINE GP AIR	64	Each	Rs1, 522
779		29	N.S	Hose As	1260197	(113-0032)	LINE GP FUEL	8	Each	Rs2, 037
780		30	N.S	Connector	8C6874	(113-0032)	LINE GP FUEL	8	Each	Rs782

781		31	N.S	Connector	8C6875	(113-0032)	LINE GP FUEL	8	Each	Rs782
782		32	N.S	Adapter STR	4229109	(113-0029)	LINE GP PRELUBE	8	Each	Rs585
783		33	N.S	Adapter STR	4229110	(113-0029)	LINE GP PRELUBE	8	Each	Rs585
784		34	N.S	Hose As	1130030	(113-0029)	LINE GP PRELUBE	17	Each	Rs4, 757
785		35	N.S	Hose As	1130031	(113-0029)	LINE GP PRELUBE	17	Each	Rs4, 329
786		36	N.S	Adapter STR	2270066	(113-0029)	LINE GP PRELUBE	8	Each	Rs585
787		37	N.S	Adapter Elbow	6V9854	(113-0029)	LINE GP PRELUBE	8	Each	Rs915
788		38	N.S	Gasket	2662451	(113-0034)	AIR INLET AND EXHAUST SYSTEM	16	Each	Rs3, 179
789		39	N.S	Bolt	6V3668	327-0851	Guard GP-Damper	32	Each	Rs1, 343
790		40	N.S	Bolt	8t0162	364-3758	Monting GP turbo charger	128	Each	Rs5, 372
791		41	N.S	Clip loop	1S2487	113-0028-1	Lines GP-Vent	16	Each	Rs224
792		42	N.S	Adopter STR	307935	113-0016-1	Lines GP-bypass.	8	Each	Rs585
793		43	N.S	Flange	1130014	113-0016-1	Lines GP-bypass.	8	Each	Rs4, 029
794		44	N.S	Flange	1130015	113-0016-1	Lines GP-bypass.	8	Each	Rs4, 029
795		45	N.S	Bolt	8C2926	113-0016-1	Lines GP-bypass.	24	Each	Rs1, 142
796		46	N.S	PLUG	2416197	113-0016-1	Lines GP-BYPASS	8	Each	Rs470
797		47	N.S	BOX GP-JUNCTION	11300101	108-5564	SMMS BOX GP	5	Each	Rs4, 197
798		48	N.S	Bolt 12 point head	2773344	285-3957	STARTING MOTOR GP.	48	Each	Rs3, 358
799		49	N.S	Seal	1569340	4P-2490	Box GP-Junction	8	Each	Rs112
800		50	N.S	Harness As Engine	5656890	350-4536	harness as sensor comp air inlet rh	8	Each	Rs20, 146
801	Spl-34-17	1	N.S	Harness As Engine	5656889	350-4536	harness as sensor comp air inlet lh	8	Each	Rs20, 146
802		2	N.S	Harness AS-Engine	5065783	350-4535	Wiring GP-E	8	Each	Rs137, 483
803		3	N.S	Harness AS-Engine	5060125	350-4535	Wiring GP-Engine	8	Each	Rs2, 091
804		4	N.S	Harness AS-Box	5287109	350-4531	Control & Mtg GP-Engine Elek	8	Each	Rs2, 485
805		5	N.S	Sensor GP-Exhaust Temperature	4152431	263-6779	Thermocouple GP	46	Each	Rs280, 818
806		6	N.S	BOX GP JUNCTION	4p2094	4P-2490	electrical and starting system	8	Each	Rs6, 715
807		7	N.S	Seal-O-Ring	2033940	153-7209	Sensor GP-Speed	8	Each	Rs470
808		8	N.S	Bellows AS	3551036	2692552	Adapter GP-Exhaust Diffuser	30	Each	Rs164, 757
809		9	N.S	Pump GP-Fuel Injection	5051183/ 3282034	3287085	Pump GP-Fuel Injection	26	Each	Rs218, 244
810		10	N.S	Harness AS-Engine	4979351	247-1880	Wiring GP-Unit Injector	336	Each	Rs282, 979
811		11	N.S	Seal O Ring	7J9108	113-0028	LINE GP VENT (113-0028)	60	Each	Rs3, 861
812		12	N.S	Bellow AS	3489252	3493980	Manifold GP-Exhaust	120	Each	Rs659, 097
813		13	N.S	Tube	3079638	3047932	LINES GP-WATER	25	Each	Rs2, 868
814		14	N.S	Clip	3079642	3047932	LINES GP-WATER	100	Each	Rs1, 959
815		15	N.S	Clip	3079643	3047932	LINES GP-WATER	100	Each	Rs2, 518
816		16	N.S	Tube As	3395623	3047932	LINES GP-WATER	25	Each	Rs132, 975
817		17	N.S	Tube	3478881	3047932	LINES GP-WATER	25	Each	Rs4, 966

818		18	N.S	Tube	2877021	3468891	LINES GP-WATER	25	Each	Rs3, 008
819		19	N.S	Tube	3339192	3468891	LINES GP-WATER	18	Each	Rs2, 367
820		20	N.S	Tube	3468850	3468893	LINES GP-WATER	18	Each	Rs2, 367
821		21	N.S	Tube As	3239921	3363623	LINES GP-FUEL FILTER	25	Each	Rs3, 481
822		22	N.S	Tube As	1130026	113_0028_1	LINES GP-VENT	8	Each	Rs42, 552
823		23	N.S	kit seal	3837551	3559692	AFTERCOOLER GP-WATER	12	Each	Rs10, 100
824		24	N.S	Bellow As	4373038	2896083	MANIFOLD GP-EXHAUST	192	Each	Rs1, 054, 555
825		25	N.S	Clamp As	4425766	2896083	MANIFOLD GP-EXHAUST	224	Each	Rs63, 302
826		26	N.S	Line as Fuel	3416784	3049602	LINES GP-FUEL INJECTION	10	Each	Rs1, 427
827		27	N.S	Injector Gp Fuel (331-5894)	20R5566	3442927	INJECTOR GP-FUEL	259	Each	Rs2, 576, 245
828		28	N.S	Tube	2934991	3270850	LINES GP-ENGINE OIL	18	Each	Rs2, 569
829		29	N.S	Tube	2934992	3270850	LINES GP-ENGINE OIL	18	Each	Rs1, 763
830		30	N.S	Tube	2956818	3270851	LINES GP-ENGINE OIL	18	Each	Rs3, 576
831		31	N.S	Shaft AS-Oil Pump	296-5584		PUMP GP ENGINE OIL	8	EACH	Rs12, 983
832		32	N.S	Shaft AS-Drive	341-2501		PUMP GP ENGINE OIL	8	EACH	Rs26, 413
833		33	N.S	Ring	3449286	493-0564	Lines GP-Water	24	EACH	Rs336
834		34	N.S	Thermo well	4234957	475-6945	Thermocouple GP	16	EACH	Rs30, 039
835		35	N.S	Clamp	2396808	293-6557	Lines GP-Aftercooler Air	64	EACH	Rs12, 714
836		36	N.S	Filter AS-Fuel	3601595			10	EACH	Rs8, 702
837		37	N.S	Filter	136-3742	349-6215	PUMP GP WATER	10	EACH	Rs560
838		38	N.S	Locknut-Bearing	229-5469	349-6215	PUMP GP WATER	10	EACH	Rs2, 828
839		39	N.S	Bearing AS	235-4181	349-6215	PUMP GP WATER	10	EACH	Rs14, 018
840		40	N.S	Seal-Water Pump	235-4643	349-6215	PUMP GP WATER	10	EACH	Rs867
841		41	N.S	Seal-O-Ring	4N-1230	349-6215	PUMP GP WATER	10	EACH	Rs644
842		42	N.S	Shaft-Pump	258-8726	349-6215	PUMP GP WATER	10	EACH	Rs25, 182
843		43	N.S	Impeller	313-2760	349-6215	PUMP GP WATER	10	EACH	Rs16, 246
844		44	N.S	Seal AS-Water Pump	336-2212	349-6215	PUMP GP WATER	10	EACH	Rs867
845		45	N.S	Bolt-Socket Head	8T-8442	349-6215	PUM GP WATER	35	EACH	Rs2, 057
846		46	N.S	Seal-O-Ring	9M3786	313-7600	Pump GP-Water	10	EACH	Rs644
847		47	N.S	Clamp	2609333	327-0844	Lines GP-Fuel Injection	10	EACH	Rs1, 427
848		48	N.S	Clamp	2662199	327-0844	Lines GP-Fuel Injection	40	EACH	Rs3, 470
849		49	N.S	Clip	3017791	328-7087	Lines GP-Fuel Collector	16	EACH	Rs224
850		50	N.S	Clip	3017792	328-7087	Lines GP-Fuel Collector	16	EACH	Rs313
851	Spl-34-18	1	N.S	Pump GP-Fuel Priming	4164703	455-7761	Pump GP-Fuel Priming	5	EACH	Rs47, 566
852		2	N.S	Mount	3006714	455-7761	Pump GP-Fuel Priming	10	EACH	Rs4, 225
853		3	N.S	Clip	8T1897	493-1660	Lines GP-Fuel Injection	64	EACH	Rs1, 254
854		4	N.S	Clip	8T1898	493-1660	Lines GP-Fuel Injection	64	EACH	Rs1, 612
855		5	N.S	Bolt	2747709	364-3909	Fastener GP-Damper	68	EACH	Rs6, 659



856		6	N.S	Shaft Idler	2706911	362-2905	Gear GP-Front	16	EACH	Rs105, 894
857		7	N.S	Cap AS-Engine Oil Filler	5366980	366-6716	Cover GP-Valve Mechanism	2	EACH	Rs304
858		8	N.S	Connector	1073877		LINE GP VENT	8	EACH	Rs2, 487
859		9	N.S	Bracket As	113_0020	113-0028	Line GP Vent	8	EACH	Rs38, 984
860		10	N.S	Bracket As	113_0021	113-0028	Line GP Vent	8	EACH	Rs38, 984
861		11	N.S	Bracket As	113_0022	113-0028	Line GP Vent	8	EACH	Rs38, 984
862		12	N.S	Hose As	113_0023	113-0028	Line GP Vent	8	EACH	Rs3, 836
863		13	N.S	Tube As	113_0024	113-0028	Line GP Vent	8	EACH	Rs2, 037
864		14	N.S	Tube As	113_0025	113-0028	Line GP Vent	8	EACH	Rs1, 813
865		15	N.S	Tube As	113_0026	113-0028	Line GP Vent	2	EACH	Rs453
866		16	N.S	Hose As	113_0027	113-0028	Line GP Vent	16	EACH	Rs5, 865
867		17	N.S	Tube As	113_0038	113-3307	LINE GP AIR	16	EACH	Rs153, 554
868		18	N.S	Tube As	113_0039	113-3307	LINE GP AIR	16	EACH	Rs153, 554
869		19	N.S	Hose As	113_0030	113-0029	LINE GP PRELUBE	8	EACH	Rs5, 171
870		20	N.S	Hose As	113_0031	113-0029	LINE GP PRELUBE	8	EACH	Rs4, 052
871		21	N.S	Tube	3488236	3468890	LINES GP-WATER	9	EACH	Rs1, 788
872		22	N.S	Hose As	3538507	3261427	LINES GP-FUEL INJECTION	17	EACH	Rs7, 182
873		23	N.S	Tube As	1130025	113_0028_1	LINES GP-VENT	17	EACH	Rs128, 428
874		24	N.S	Seal-O-Ring	1128186	(352-8230)	Regulator GP-Oil Pressure	40	Each	Rs560
<b>Part List of 3516-B Diesel Engine For ZCU-20 DE Locos</b>										
875		25	186-23370	GAssemblyKET	4H7869	257-2143	COVER GP FLYWHEEL HOUSING	36	Each	Rs403
876		26	186-23430	Seal	2720758	121-3551	COVER GP CYLINDER BLOCK	192	Each	Rs2, 149
877		27	186-23540	SealIntegral	2348937	4W1529	Cover GP Fly wheel Housing	24	EACH	Rs269
878		28	186-23550	GAssemblyket	7N4320	4W-1529	COVER GP FLYWHEEL HOUSING	19	Each	Rs319
879		29	186-23560	Seal-O-Ring	2353546	107-8278	COVER GP FRONT HOUSING	42	Each	Rs470
880		30	186-23570	Seal-O-Ring	6V3348	107-8278	COVER GP FRONT HOUSING	134	Each	Rs1, 500
881		31	186-23590	Seal-O-Ring	5P0840	107-8278	COVER GP FRONT HOUSING	160	Each	Rs1, 791
882		32	186-23600	Gasket-Cover	8N9885 / 4973911	107-8278	COVER GP FRONT HOUSING	36	Each	Rs604
883		33	186-23650	COVER	1014197	101-0831	VALVE MECHANISM GP	50	Each	Rs22, 384
884		34	186-23660	Bolt	1A9579	1010831	Cover GP Valve Mechanism	468	EACH	Rs1, 309
885		35	186-23670	WasherHard	9M1974	1010831	Cover GP Valve Mechanism	768	EACH	Rs430
886		36	186-23700	Bearing Assembly-Main	1496031	8N-0337	CRANKSHAFT GP	90	Each	Rs323, 841
887		37	186-23710	Plate-Thrust	7C6209	8N-0337	CRANKSHAFT GP	20	Each	Rs22, 384
888		38	186-23790	Bearing-Camshaft	1011198 / 1106994	240-6653	CYLINDER BLOCK GP	182	Each	Rs357, 484
889		39	186-23810	seal O Ring	5F9657	240-6653	CYLINDER BLOCK GP	48	Each	Rs5, 641
890		40	186-23830	seal O Ring	8T8147 / 5P8210	3505223	Cylinder Block GP	24	EACH	Rs269
891		41	186-23960	Fastener GP Cylinder Head	1310421	3505202	Cylinder Head GP	50	EACH	Rs1, 399
892		42	186-23990	Gasket Cylinder head	1106991	203-2169	CYLINDER HEAD GP	80	Each	Rs2, 238

893		43	186-24170	Bearing-Connecting Rod	1077330	281-6139	PISTON & ROD GP	171	Each	Rs382, 766
894		44	186-24180	Ring-Piston	1445695 / 4483651	281-6139	PISTON & ROD GP	192	Each	Rs77, 359
895		45	186-24200	Ring-Piston oil	2236361	281-6139	PISTON & ROD GP	121	Each	Rs47, 398
896		46	186-24320	Seal	2720759	1213552	Cover GPCylinder Block	182	EACH	Rs2, 037
897		47	186-24340	Cap Assembly	7E6508	224-9869	VALVE MECHANISM GP	192	Each	Rs10, 744
898		48	186-24350	Spring-Lifter Guide	7N4782	224-9869	VALVE MECHANISM GP	378	Each	Rs962, 456
899		49	186-24380	Recepticle	9x0352	108-5564	SMMS BOX GP	384	Each	Rs25, 786
900		50	186-24460	Pushrod-Injector	1003879 / 5646766	224-9869	VALVE MECHANISM GP	10	Each	Rs8, 954
901	Spl-34-19	1	186-24650	NUT-FULL 3/8-16	9S8752	1552623	ENCLOSURE GP WIRING	16	Each	Rs18
902		2	186-24870	Gasket Manifold Air	1538455 / 7N5080	2692026	LINE GP AIR	192	EACH	Rs8, 595
903		3	186-24940	Screw-Adjustment	2002003	224-9869	VALVE MECHANISM GP	160	Each	Rs8, 954
904		4	186-25030	Seal O Ring	1367227 / 6V4589		LINE GP WATER	72	EACH	Rs806
905		5	186-25180	Seal	2407032	224-9869	VALVE MECHANISM GP	192	Each	Rs10, 744
906		6	186-25190	Shaft ASPump Drive	2128180	4160613	Pump GPWater	12	EACH	Rs10, 744
907		7	186-25270	Ring Retainer	4W0531		LINE GP WATER	10	EACH	Rs280
908		8	186-25350	Bolt 3/8-16	OS1590	9Y-3085	PAN GP-OIL-DEEP SUMP	200	Each	Rs224
909		9	186-25360	Bridge (Intake)	2657537	224-9869	VALVE MECHANISM GP	192	Each	Rs21, 489
910		10	186-25420	Bridge (Exhaust)	2657538	224-9869	VALVE MECHANISM GP	192	Each	Rs21, 489
911		11	186-25440	seal	2295333 / 4289130	204-5463	MANIFOLD GP EXHAUST	396	Each	Rs26, 592
912		12	186-25480	Rocker Arm Assembly	2816159	224-9869	VALVE MECHANISM GP	9	Each	Rs12, 591
913		13	186-25500	Seal	2295332 / 4289129	204-5463	MANIFOLD GP EXHAUST	192	Each	Rs12, 893
914		14	186-25540	Lifter Assembly Injector	2827944	224-9869	VALVE MECHANISM GP	10	Each	Rs12, 311
915		15	186-25550	Impeller	2128186	212-8174	PUMP GP-WATER	7	Each	Rs3, 917
916		16	186-25600	SealORing	5P7530	2249869	Valve Mechanism GP	58	EACH	Rs8, 308, 941
917		17	186-25620	Pump GP-Engine Oil	1069872	106-9873	PUMP GP ENGINE OIL 106-9873	3	Each	Rs1, 343
918		18	186-25620	Body ASOil Pump	1069871	1069872	Pump GP Engine Oil	3	EACH	Rs1, 343
919		19	186-25660	Seal-O-Ring	6J2245 / 8F8882	224-9869	VALVE MECHANISM GP	192	Each	Rs2, 149
920		20	186-25680	Bushing	1W6005	1069872	Pump GP Engine Oil	72	EACH	Rs8, 058
921		21	186-25720	Shaft ASIdler	1069867	1069872	Pump GP Engine Oil	3	EACH	Rs2, 350
922		22	186-25780	Shaft ASOil Pump Drive	1069869	1069872	Pump GP Engine Oil	2	EACH	Rs1, 567
923		23	186-25820	Breather AS	4W3027	1245513	Breather GP	47	EACH	Rs47, 342
924		24	186-25850	Cover ASPump	7W0050	1069872	Pump GP Engine Oil	3	EACH	Rs1, 343
925		25	186-25880	SealORing	4252519 / 336031	1245513	Breather GP	48	EACH	Rs537
926		26	186-25910	Cover ASPump	1N4637	1069872	Pump GP Engine Oil	3	EACH	Rs1, 343
927		27	186-26030	SpoolPressure Relief	7N5449	1069872	Pump GP Engine Oil	12	EACH	Rs537
928		28	186-26130	Seal Aftercooler	1073758	107-7197	AFTERCOOLER GP-TREATED WATER	24	Each	Rs672
929		29	186-26190	Core Assembly After cooler	1115059	107-7197	AFTERCOOLER GP	24	Each	Rs426, 281
930		30	186-26290	Grommet	1081434	101-1246	LINE GP FUEL INJECTION	219	Each	Rs4, 902

931		31	186-26360	Hose As	3N6504	5N-2438	LINES GP-FLEXIBLE FUEL	48	Each	Rs1, 612
932		32	186-26400	Seal O Ring	2305080 / 8L2786	2692025	LINE GP TURBO OIL	96	EACH	Rs1, 612
933		33	186-26500	Manifold GP-Fuel	1569755	101-1246	LINE GP FUEL INJECTION	2	Each	Rs470
934		34	186-26510	Manifold GP-Fuel	1569756	101-1246	LINE GP FUEL INJECTION	2	Each	Rs470
935		35	186-26550	Seal-O-Ring	2385080	101-1246	LINE GP FUEL INJECTION	8	Each	Rs22
936		36	186-26640	SEAL O Ring	2454907	100-8774	PUMP GP FUEL INJECTION	192	Each	Rs2, 149
937		37	186-26660	Bolt	7F8698	100-8774	PUMP GP-FUEL INJECTION	28	Each	Rs39
938		38	186-26670	Fuel Priming Pumo	1623906	7N8599	PUMP GP FUEL PRIMING	5	EACH	Rs7, 834
939		39	186-26710	Pump GP-Fuel Transfer	3137770 / 10R9838	8N-6151	Pump GP-Fuel Transfer	3	Each	Rs30, 605
940		40	186-26720	SealORing	1H9696	8N6151	Pump GPFuel Transfer	12	EACH	Rs134
941		41	186-26780	Camshaft Assembly	1278260	106-4595	CAM SHAFT GP.	1	Each	Rs10, 823
942		42	186-26800	Camshaft Assembly	1278261	106-4595	CAM SHAFT GP.	1	Each	Rs10, 823
943		43	186-26810	Camshaft Assembly	1278262	106-4595	CAM SHAFT GP.	1	Each	Rs10, 823
944		44	186-26820	Assembly her-Thrust	7N3218	106-4595	CAM SHAFT GP.	16	Each	Rs173, 163
945		45	186-26850	Camshaft Assembly	1334081	106-4595	CAM SHAFT GP.	1	Each	Rs10, 823
946		46	186-27270	Gasket	2N0931	138-6293	REGULATOR GP	48	Each	Rs537
947		47	186-28020	Seal O Ring	2594598	1531237	Drive GPAuxiliary	16	EACH	Rs1, 074
948		48	186-28060	Gear-Flywheel	2330643	7E-4707	FLY WHEEL GP	3	Each	Rs38, 612
949		49	186-29540	Seal O Ring	2697885 / 3P0655	3796974	LINE GP ENGINE OIL	23	EACH	Rs257
950		50	186-29670	Gasket	2473796	4W-5891	COOLER GP-ENGINE OIL	72	Each	Rs1, 209
951	Spl-34-20	1	186-30030	Seal O Ring	5P6302	3468893	Lines GPWater	12	Each	Rs134
952		2	186-30560	Clamp Hose	5p3860	288-8380	LINE GP AIR 208-0821	92	Each	Rs5, 148
953		3	N.S	Ring Retaining	7X0874 / 1W4099	1531241	Lines GPWater	48	EACH	Rs537
954		4	N.S	Pump Gp Water	2128177 / 4160610	2W-9729	pump gp jacket water main pump	5	Each	Rs33, 576
955		5	N.S	Pump GP-Water	4160613 / 10R9598	297-6833	PUMP GP WATER AUXILIARRY	4	Each	Rs26, 861
956		6	N.S	Kit-Cylinder Head Assembly	4425189	224-9869	ENGINE KITS	192	Each	Rs472, 041
957		7	N.S	Liner-Cylinder	5238663 / 2117826	589-3619	LINER GP	100	Each	Rs217, 511
958		8	N.S	Bolt Assembly	1284845	8N-0337	CRANKSHAFT GP	576	Each	Rs1, 211, 959
959		9	N.S	Ring-Piston	5096461 / 4889888	281-6139	PISTON & ROD GP	192	Each	Rs66, 196
960		10	N.S	Piston Assembly	2995204 / 10R4343	281-6139	PISTON & ROD GP	18	Each	Rs211, 503
961		11	N.S	Gasket	2N0932 / 1L8213	138-6293	REGULETOR GP TEMP	50	Each	Rs792
962		12	N.S	BAssemblyE Assembly	2478340	247-8341	BAssemblyE GP VALVE COVER	100	Each	Rs15, 702
963		13	N.S	Plate-Spacer	5197297 / 1106994	240-6653	CYLINDER BLOCK GP	230	Each	Rs682, 436
964		14	N.S	Turbo Gp BAssemblyic	1933278	269-2022	TURBOCHARGER GP	3	Each	Rs419, 700
965		15	N.S	Clamp	2146050	269-2022	TURBOCHARGER GP	12	Each	Rs11, 924
966		16	N.S	Clamp V Band	3061720	269-2022	TURBOCHARGER GP	48	Each	Rs111, 870
967		17	N.S	Bellows Assembly	2364309	269-2022	TURBOCHARGER GP	35	Each	Rs216, 243

968		18	N.S	Bellows Assembly	2305021	204-5463	MANIFOLD GP EXHAUST	168	Each	Rs675, 914
969		19	N.S	Bolt High Temp	5P3875	204-5463	MANIFOLD GP EXHAUST	768	Each	Rs2, 192
970		20	N.S	Bolt High Temp	5P3961	204-5463	MANIFOLD GP EXHAUST	48	Each	Rs188
971		21	N.S	Spacer	2360719 / 1149224	204-5463	MANIFOLD GP EXHAUST	192	Each	Rs86, 180
972		22	N.S	Crankshaft Assembly	4488940	151-9217	ENGINE AR	2	Each	Rs1, 343, 040
973		23	N.S	Seal	1138433 / 5697729	7W-3813	Seal Gp Crankshaft	12	Each	Rs21, 530
974		24	N.S	Seal	1138432 / 5697728	7W-3813	Seal Gp Crankshaft	12	Each	Rs22, 222
975		25	N.S	Tube Assembly-Oil Gauge	7E0467 / 1337544	7C-6366	GAUGE GP OIL LEVEL (DIPSTICK)	12	Each	Rs394
976		26	N.S	Seal-Integral	1293948 / 1446142	153-1241	DRIVE GP AUXILIARY	12	Each	Rs157
977		27	N.S	Seal-O-Ring	8C3073	153-1241	LINE GP WATER	12	Each	Rs154
978		28	N.S	Plate-Orifice	5N0408	153-1241	LINE GP WATER	3	Each	Rs1, 749
979		29	N.S	Seal-O-Ring	7L4773	179-1519	LINE GP WATER	24	Each	Rs1, 054, 738
980		30	N.S	Assembly Sealing	5R7136 / 5L5840	8N-7174	GEAR GP FRONT	48	Each	Rs330, 372
981		31	N.S	Assembly Sealing	5R7137 / 6V0405	8N-7174	GEAR GP FRONT	48	Each	Rs330, 345
982		32	N.S	Gear Assembly Idler	1448263	153-1237	DRIVE GP AUXILIARY	32	Each	Rs13, 609
983		33	N.S	WAssemblyher-Thrust	1011368	101-0835	Gear Gp Rear	19	Each	Rs15, 949
984		34	N.S	Hose Assembly	4780107	101-1246	LINE GP FUEL INJECTION	12	Each	Rs618
985		35	N.S	Hose Assembly	4780108	101-1246	LINE GP FUEL INJECTION	12	Each	Rs371
986		36	N.S	Lifter Assembly	5744543	224-9869	VALVE MECHANISM GP	50	Each	Rs8, 623
987		37	N.S	Seal-O-Ring	6V6809 / 9M3786	7C-8122	LINE GP WATER	24	Each	Rs968
988		38	N.S	Tube Assembly	1361505	199-5602	LINE GP WATER	12	Each	Rs5, 054
989		39	N.S	Tube	1386290	199-5602	LINE GP WATER	12	Each	Rs13, 430
990		40	N.S	Tube	1531238	199-5602	LINE GP WATER	12	Each	Rs13, 430
991		41	N.S	Retainer	2W4006	199-5602	LINE GP WATER	24	Each	Rs723
992		42	N.S	HOSE Assembly	1843230	269-2025	LINE GP TURBO OIL	48	Each	Rs19, 042
993		43	N.S	Bracket	2673393	269-2025	LINE GP TURBO OIL	48	Each	Rs41, 231
994		44	N.S	GAssemblyket	2453512	269-2026	LINE GP AIR	17	Each	Rs10, 465
995		45	N.S	Tube Assembly	1537493	284-2316	LINE GP TURBO WATER	14	Each	Rs13, 562
996		46	N.S	Tube Assembly	2067239	284-2316	LINE GP TURBO WATER	5	Each	Rs6, 859
997		47	N.S	Tube Assembly	2067241	284-2316	LINE GP TURBO WATER	11	Each	Rs20, 340
998		48	N.S	Tube Assembly	2067242	284-2316	LINE GP TURBO WATER	5	Each	Rs8, 714
999		49	N.S	GAssemblyket	3419211 / 2413283	284-2316	LINE GP TURBO WATER	192	Each	Rs81, 173
1000		50	N.S	Tube Assembly	2842315	284-2316	LINE GP TURBO WATER	12	Each	Rs5, 046
1001	Spl-34-21	1	N.S	Ring Retainer	8N1991 / 3617097	379-6974	LINE GP ENGINE OIL	12	Each	Rs2, 270
1002		2	N.S	Hose Reducer	8N5254 / 4489143	208-0821	LINE GP AIR	24	Each	Rs23, 061
1003		3	N.S	Hose	1622177	208-0821	LINE GP AIR	24	Each	Rs8, 023
1004		4	N.S	Hose Assembly	1874608	112-0004	LINE GP VENT	28	Each	Rs6, 304
1005		5	N.S	Mount-Isolation	8T9655	220-2676	CONTROL & MTG GP. - Engine Elek	66	Each	Rs27, 700

1006	6	N.S	Gasket	3094550	101-1269	HOUSING GP FLY WHEEL	8	Each	Rs14, 995
1007	7	N.S	Gasket	7N3049	4P-5426	HOUSING GP FRONT	8	Each	Rs2, 207
1008	8	N.S	Kit-Gasket -Central, Lower	4218619	4W-1529	ENGINE KITS	11	Each	Rs123, 308
1009	9	N.S	Kit-Installation Jacket wat	1960237	4W-1529	ENGINE KITS	12	Each	Rs30, 218
1010	10	N.S	Kit-Fuel unit injector	2688154	4W-1529	ENGINE KITS	18	Each	Rs2, 070
1011	11	N.S	Kit-oil Pump Installation	4378254	4W-1529	ENGINE KITS	12	Each	Rs8, 127
1012	12	N.S	ECM	3482388 / 2118289	220-2676	CONTROL GP. - ENGINE	2	Each	Rs56, 719
1013	13	N.S	mounting gp-junction box	1200021 / 1519218	151-9216	CONNECTION GP ELECTRICAL	16	Each	Rs7, 611
1014	14	N.S	Harness Assembly Engine	2537390	232-4670	WIRING-GP ENGINE	4	Each	Rs6, 779
1015	15	N.S	Exhaust Temperature sensor	4152432 / 1637882	253-7403	SENSORES	24	Each	Rs1, 428, 860
1016	16	N.S	Boost Pressure sensor	1946724	253-7403	SENSORES	4	Each	Rs4, 534
1017	17	N.S	Sensor Gp Temperature	3198531 / 1022240	253-7403	SENSORES	24	Each	Rs100, 728
1018	18	N.S	Sensor Gp Speed Primary	5221643 / 2735041	253-7403	SENSORES	3	Each	Rs4, 480
1019	19	N.S	Fuel Pressure sensor	1946725	253-7403	SENSORES	48	Each	Rs54, 409
1020	20	N.S	Sensor GP Speed	1895746	253-7403	SENSORES	12	Each	Rs16, 788
1021	21	N.S	Crank Assembly pressure sensor	1619926	253-7403	SENSORES	48	Each	Rs54, 409
1022	22	N.S	GASKET	4P4460	269-2025	LINE GP TURBO OIL	48	Each	Rs5, 372
1023	23	N.S	GASKET	7N7559 / 1251008	269-2025	LINE GP TURBO OIL	48	Each	Rs5, 372
1024	24	N.S	Seal O Ring	5P9890 / 1123540	269-2025	LINE GP TURBO OIL	96	Each	Rs4, 550
1025	25	N.S	Adopter	1070765	269-2026	LINES GP-AIR	30	Each	Rs571
1026	26	N.S	Junction box for starting motor	2575609	1085564	Locomotive Engine	15	Each	Rs62, 535
1027	27	N.S	Control GP-Remote speed	1402175	1402175	Control GP-Remote speed	7	Each	Rs64, 634
1028	28	N.S	Exhaust Temperature Sensor ZCU-20	1637882	2537403	WIRING-GP ENGINE	24	Each	Rs142, 765
1029	29	N.S	U-Bolt	1979732	208-0821	LINES GP-AIR	60	Each	Rs27
1030	30	N.S	Exhaust gasket	1215736	269-2022	TURBO GP	58	Each	Rs3, 294
1031	31	N.S	Clamp	1569748	156-9755	MANIFOLD GP-FUEL-RH	40	Each	Rs2, 686
1032	32	N.S	Bolt	1D4539	156-9755	MANIFOLD GP-FUEL-RH	40	Each	Rs1, 377
1033	33	N.S	Bellow As	2146045	5N-2457	FITTING GP EXHAUST	3	Each	Rs5, 429
1034	34	N.S	Bolt-Flange Head	2N2765	269-2022	TURBO GP	120	Each	Rs544
1035	35	N.S	Hose As	7D3958	6I-1457	LINES GP-FUEL	15	Each	Rs2, 064
1036	36	N.S	Pump gp fuel priming	7N8599	115-1065	PUMP GP-FUEL PRIMING-LH	4	Each	Rs83, 873
1037	37	N.S	Clamp	9Y0047	156-9755	MANIFOLD GP-FUEL-RH	40	Each	Rs3, 391
1038	38	N.S	TUBE AS	1537499	284-2316	LINES GP-WATER	5	Each	Rs2, 106
1039	39	N.S	TUBE AS	1537500	284-2316	LINES GP-WATER	5	Each	Rs2, 106
1040	40	N.S	TUBE AS	1537506	284-2316	LINES GP-WATER	5	Each	Rs2, 106

1041		41	N.S	TUBE AS-OIL	6I0812	269-2025	LINES GP-TURBOCHARGER OIL	8	Each	Rs3, 377
1042		42	N.S	CLAMP AS	4P0692	269-2025	LINES GP-TURBOCHARGER OIL	504	Each	Rs33, 845
1043		43	N.S	BRACKET	7E5330	269-2025	LINES GP-TURBOCHARGER OIL	24	Each	Rs7, 189
1044		44	N.S	TUBE AS	7E0949	269-2025	LINES GP-TURBOCHARGER OIL	4	Each	Rs1, 685
1045		45	N.S	TUBE AS	2067234	269-2025	LINES GP-TURBOCHARGER OIL	4	Each	Rs1, 685
1046		46	N.S	Regulator Water Temperature	6I4950	9Y-9171	HOUSING & REGULATOR GP-	20	Each	Rs106, 324
1047		47	N.S	Clamp Hose	4W3034	1245513	Breather GP	11	EACH	Rs215
1048		48	N.S	Clamp Hose	5P4898	1245513	Breather GP	24	EACH	Rs470
1049		49	N.S	Clamp Hose	5P0597	1245513	Breather GP	48	EACH	Rs940
1050		50	N.S	Core GP Oil Cooler	4W5405	4W5891	Cooler GP Engine Oil	12	EACH	Rs443, 338
1051	Spl-34-22	1	N.S	Valve Exhaust	4688825	3388672	Cylinder Head GP	24	EACH	Rs3, 438
1052		2	N.S	Valve Inlet	4688824	3388672	Cylinder Head GP	24	EACH	Rs3, 895
1053		3	N.S	Washer	3165981	3388672	Cylinder Head GP	24	EACH	Rs604
1054		4	N.S	Seal O Ring	6V7991	1463740	Damper GP	12	EACH	Rs772
1055		5	N.S	Seal O Ring	9x7550 / 4D0449	1463740	Damper GP	24	EACH	Rs1, 142
1056		6	N.S	Washer Thrust	7N5246	1531237	Drive GPAuxiliary	8	EACH	Rs560
1057		7	N.S	Bushing	1275400	1531237	Drive GPAuxiliary	40	EACH	Rs11, 192
1058		8	N.S	Gear AS Cluster	1143372	1010835	Gear GPRear	11	EACH	Rs9, 233
1059		9	N.S	Gear ASIdler	1011364	1010835	Gear GPRear	24	EACH	Rs14, 102
1060		10	N.S	Regulator Water Temperature	5937750 / 2485513	9Y9171	Housing & Regulator GP	48	EACH	Rs40, 291
1061		11	N.S	HousingWater Pump	3132651	4160613	Pump GPWater	3	EACH	Rs5, 876
1062		12	N.S	Bolt	0S1618	4160613	Pump GPWater	24	EACH	Rs2, 095
1063		13	N.S	Spring	1077175	1069872	Pump GP Engine Oil	12	EACH	Rs1, 679
1064		14	N.S	SealORing	5H7704 / 9M2092	1531241	Lines GPWater	12	EACH	Rs907
1065		15	N.S	IndicatorAir Filter Service	6I2933	7N6782	Indicator GPAir Filter Change	24	EACH	Rs10, 147
1066		16	N.S	Housing ASPump	7N4756	2128177	Pump GPWater	4	EACH	Rs7, 834
1067		17	N.S	Retainer	1W 4072		LINE GP WATER	48	EACH	Rs12, 222
1068		18	N.S	Retainer	2W4005		LINE GP WATER	12	EACH	Rs3, 055
1069		19	N.S	Washer Hard	2M2894	2045463	MANIFOLD GP EXHAUST	960	EACH	Rs24, 175
1070		20	N.S	Clamp AS	7W2297	1933278	Turbocharger GP	48	EACH	Rs4, 969
1071		21	N.S	Cartridge GPTurbocharger	4947644	1933278	Turbocharger GP	60	EACH	Rs1, 510, 920
1072		22	N.S	Seal	2361637	2692022	TURBOCHARGER GP	48	EACH	Rs940
1073		23	N.S	Clip	6K5535	2692025	LINE GP TURBO OIL	48	EACH	Rs940
1074		24	N.S	Clip	6K5536	2692025	LINE GP TURBO OIL	48	EACH	Rs940
1075		25	N.S	Seal O Ring	2701820 / 5P8940	2692026	LINE GP AIR	8	EACH	Rs515
1076		26	N.S	Hose As	4339259	1120004	LINE GP VENT	24	EACH	Rs10, 140
1077		27	N.S	Tube As	112_0005	1120004	LINE GP VENT	12	EACH	Rs23, 503

1078		28	N.S	Tube As	112_0006	1120004	LINE GP VENT	12	EACH	Rs23, 503
1079		29	N.S	Tube As	112_0007	1120004	LINE GP VENT	12	EACH	Rs23, 503
1080		30	N.S	Tube As	112_0008	1120004	LINE GP VENT	12	EACH	Rs23, 503
1081		31	N.S	Tube As	112_0009	1120004	LINE GP VENT	12	EACH	Rs23, 503
1082		32	N.S	Tube As	112_0010	1120004	LINE GP VENT	12	EACH	Rs23, 503
1083		33	N.S	Bracket As	112_0011	1120004	LINE GP VENT	24	EACH	Rs116, 844
1084		34	N.S	Bracket As	112_0012	1120004	LINE GP VENT	12	EACH	Rs58, 422
1085		35	N.S	Seal O Ring	1148718 / 6V6228	2478341	Base GPValve Cover	576	EACH	Rs40, 291
1086		36	N.S	Kit Installation Aux Water Pump	3047216			12	EACH	Rs10, 073
1087		37	N.S	Kit Gasket	6014626			12	EACH	Rs5, 070
1088		38	N.S	Kit Gasket	6014618			12	EACH	Rs5, 036
1089		39	N.S	BOLT 12 POINT HD	7J8902	1085546	MOTOR GP. ELECD	72	EACH	Rs5, 036
1090		40	N.S	CABLE AS	4L6155	1085546	MOTOR GP. ELECD	12	EACH	Rs16, 788
1091		41	N.S	SHIELD	3L7604	1085546	MOTOR GP. ELECD	24	EACH	Rs14, 102
1092		42	N.S	INSULATOR	6N3279	1070997	STARTING MOTOR GP.	12	EACH	Rs705
1093		43	N.S	RUBBER MOUNT	107_0154_1	12_0002_1	MOUNTING GPJUNCTION Box	12	EACH	Rs1, 007
1094		44	N.S	RELAY AS 3E5239	4539924	1519218	MOUNTING GPJUNCTION Box	5	EACH	Rs9, 793
1095		45	N.S	SWITCH A	6T1767	1519218	MOUNTING GPJUNCTION Box	1	EACH	Rs839
1096		46	N.S	BRACKET	1386308	1519218	MOUNTING GPJUNCTION Box	5	EACH	Rs12, 591
1097		47	N.S	Switch As Magnet	9X8124	1519218	MOUNTING GPJUNCTION Box	7	EACH	Rs6, 855
1098		48	N.S	HARNESS AS BOX	1519211	1519218	MOUNTING GPJUNCTION Box	3	EACH	Rs25, 182
1099		49	N.S	SPACER	1K4649	1085564	SMMS BOX GP	10	EACH	Rs655
1100		50	N.S	MOUNTSHOCK	9Y9373	1085564	SMMS BOX GP	14	EACH	Rs5, 092
1101		51	N.S	BOLT 1/213	1A1460	1085564	SMMS BOX GP	12	EACH	Rs1, 041
1102		52	N.S	WASHERHARD	5P8245	1085564	SMMS BOX GP	10	EACH	Rs252
1103		53	N.S	BOLT 1/420	2A0762	1085564	SMMS BOX GP	10	EACH	Rs196
1104		54	N.S	WASHERHARD	5P0537	1085564	SMMS BOX GP	20	EACH	Rs1, 623
1105		55	N.S	WIRE - CM	8T1487	1085564	SMMS BOX GP	860	EACH	Rs36, 094
1106		56	N.S	TERMINAL	7E8866	1085564	SMMS BOX GP	36	EACH	Rs1, 944