

SCHEDULE OF BID DOCUMENTS

Section No	Page
SECTION 1: SBD1 FORM.....	3
SECTION 2: NOTICE TO BIDDERS.....	5
1 INVITATION TO BID.....	5
2 FORMAL BRIEFING.....	6
3 PROPOSAL SUBMISSION.....	7
4 RFP INSTRUCTIONS.....	8
5 JOINT VENTURES OR CONSORTIUMS.....	8
6 COMMUNICATION (CLARIFICATIONS AND COMPLAINTS).....	8
7 CONFIDENTIALITY.....	9
8 COMPLIANCE.....	9
9 EMPLOYMENT EQUITY ACT.....	9
10 DISCLAIMERS.....	9
11 LEGAL REVIEW.....	10
12 SECURITY CLEARANCE.....	10
SECTION 3: BACKGROUND, OVERVIEW AND SCOPE OF REQUIREMENTS.....	11
SECTION 4: PRICING AND DELIVERY SCHEDULE.....	51
SECTION 5: PROPOSAL FORM AND LIST OF RETURNABLE DOCUMENTS.....	62
SECTION 6: RFP DECLARATION CERTIFICATE OF ACQUAINTANCE & BREACH OF LAW FORM WITH RFP.....	67
SECTION 7: RFP DECLARATION AND BREACH OF LAW FORM.....	68
SECTION 8: RFP CLARIFICATION REQUEST FORM.....	72
SECTION 9 : SPECIFIC GOALS POINTS CLAIM FORM.....	73
SECTION 10: CERTIFICATE OF ATTENDANCE OF COMPULSORY RFP BRIEFING.....	79
SECTION 11: PROTECTION OF PERSONAL INFORMATION.....	80

RFP ANNEXURES:

- ANNEXURE A - MASTER AGREEMENT
- ANNEXURE B - TRANSNET’S GENERAL BID CONDITIONS
- ANNEXURE C - TRANSNET’S SUPPLIER INTEGRITY PACT
- ANNEXURE D - NON-DISCLOSURE AGREEMENT
- ANNEXURE E - PRICING SCHEDULE
- ANNEXURE F - SPECIFICATIONS AND DRAWINGS NON-DISCLOSURE AGREEMENT

**RFP FOR THE CLASS 20E, 21E AND 22E LOCOMOTIVE SUPPLY OF VARIOUS SPARE PARTS FOR
TRANSNET ENGINEERING LOCOMOTIVE BUSINESS FOR A PERIOD OF THREE (3) YEARS "AS AND
WHEN REQUIRED" BASIS**

SECTION 1: SBD1 FORM

PART A

INVITATION TO BID

YOU ARE HEREBY INVITED TO BID FOR REQUIREMENTS OF 18E JUMPER CABLES, A DIVISION TRANSNET SOC LTD							
BID NUMBER:	TE25-DBN-6GC-16060 (TE/2026/03/0002/113689/ RFP)	ISSUE DATE:	11 March 2026	CLOSING DATE EXTENSION:	29 May 2026	CLOSING TIME:	10:00AM
DESCRIPTION	CLASS 20E, 21E AND 22E LOCOMOTIVE SUPPLY OF VARIOUS SPARE PARTS FOR TRANSNET ENGINEERING LOCOMOTIVE BUSINESS FOR A PERIOD OF THREE (3) YEARS "AS AND WHEN REQUIRED" BASIS						
BID RESPONSE DOCUMENTS SUBMISSION INSTRUCTIONS							
(please refer to section 2, paragraph 3 for a detailed process on how to upload submissions): https://transnetetenders.azurewebsites.net							
BIDDING PROCEDURE / TECHNICAL ENQUIRIES MAY BE DIRECTED TO:							
CONTACT PERSON	Lindy van Zyl						
TELEPHONE NUMBER	031 361 5328						
FACSIMILE NUMBER	N/A						
E-MAIL ADDRESS	Lindy.vanzyl@transnet.net						
SUPPLIER INFORMATION							
NAME OF BIDDER							
POSTAL ADDRESS							
STREET ADDRESS							
TELEPHONE NUMBER	CODE			NUMBER			
CELLPHONE NUMBER							
FACSIMILE NUMBER	CODE			NUMBER			
E-MAIL ADDRESS							
VAT REGISTRATION NUMBER							
IT IS A CONDITION OF THIS BID THAT THE TAX MATTERS OF THE SUCCESSFUL RESPONDENTS BE IN ORDER, OR THAT SATISFACTORY ARRANGEMENTS HAVE BEEN MADE WITH SOUTH AFRICAN REVENUE SERVICE (SARS) TO MEET THE RESPONDENTS TAX OBLIGATIONS.							
	TCP PIN		OR	CSD NO			
SUPPLIER COMPLIANCE STATUS	<input type="checkbox"/> Yes <input type="checkbox"/> No		OR	BBEE STATUS LEVEL SWORN AFFIDAVIT			
If Yes, Who was the Certificate issued by?							
AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA) AND NAME THE APPLICABLE IN THE TICK BOX	<input type="checkbox"/>	AN ACCOUNTING OFFICER AS CONTEMPLATED IN THE CLOSE CORPORATION ACT (CCA)					
	<input type="checkbox"/>	A VERIFICATION AGENCY ACCREDITED BY THE SOUTH AFRICAN ACCREDITATION SYSTEM (SANAS)					
	<input type="checkbox"/>	A REGISTERED AUDITOR					
		NAME:					

Respondent's Signature

Date & Company Stamp

[A B-BBEE STATUS LEVEL VERIFICATION CERTIFICATE/ SWORN AFFIDAVIT (FOR EMES & QSEs) MUST BE SUBMITTED FOR PURPOSES OF COMPLIANCE WITH THE B-BBEE ACT]			
1 ARE YOU THE ACCREDITED REPRESENTATIVE IN SOUTH AFRICA FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES ENCLOSE PROOF]	2 ARE YOU A FOREIGN BASED SUPPLIER FOR THE GOODS /SERVICES /WORKS OFFERED?	<input type="checkbox"/> Yes <input type="checkbox"/> No [IF YES, ANSWER QUESTIONNAIRE BELOW]
Signature of the Bidder	Date:
QUESTIONNAIRE TO BIDDING FOREIGN SUPPLIERS			
IS THE BIDDER A RESIDENT OF THE REPUBLIC OF SOUTH AFRICA (RSA)?		<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE BIDDER HAVE A BRANCH IN THE RSA?		<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE BIDDER HAVE A PERMANENT ESTABLISHMENT IN THE RSA?		<input type="checkbox"/> YES <input type="checkbox"/> NO	
DOES THE BIDDER HAVE ANY SOURCE OF INCOME IN THE RSA?		<input type="checkbox"/> YES <input type="checkbox"/> NO	
IF THE ANSWER IS "NO" TO ALL OF THE ABOVE, THEN IT IS NOT A REQUIREMENT TO REGISTER FOR A TAX COMPLIANCE STATUS SYSTEM PIN CODE FROM THE SOUTH AFRICAN REVENUE SERVICE (SARS) AND IF NOT REGISTER AS PER 1.3 BELOW.			

PART B TERMS AND CONDITIONS FOR BIDDING

1. TAX COMPLIANCE REQUIREMENTS
1.1 BIDDERS MUST ENSURE COMPLIANCE WITH THEIR TAX OBLIGATIONS. 1.2 BIDDERS ARE REQUIRED TO SUBMIT THEIR UNIQUE PERSONAL IDENTIFICATION NUMBER (PIN) ISSUED BY SARS TO ENABLE THE ORGAN OF STATE TO VERIFY THE TAXPAYER'S PROFILE AND TAX STATUS. 1.3 APPLICATION FOR TAX COMPLIANCE STATUS (TCS) PIN MAY BE MADE VIA E-FILING THROUGH THE SARS WEBSITE WWW.SARS.GOV.ZA. 1.4 BIDDERS MAY ALSO SUBMIT A PRINTED TCS CERTIFICATE TOGETHER WITH THE BID. 1.5 IN BIDS WHERE UNINCORPORATED CONSORTIA / JOINT VENTURES / SUB-CONTRACTORS ARE INVOLVED, EACH PARTY MUST SUBMIT A SEPARATE TCS CERTIFICATE / PIN / CSD NUMBER. 1.6 WHERE NO TCS IS AVAILABLE BUT THE BIDDER IS REGISTERED ON THE CENTRAL SUPPLIER DATABASE (CSD), A CSD NUMBER MUST BE PROVIDED. 1.7 RESPONDENTS ARE REQUIRED TO SELF-REGISTER ON NATIONAL TREASURY'S CENTRAL SUPPLIER DATABASE (CSD) WHICH HAS BEEN ESTABLISHED TO CENTRALLY ADMINISTER SUPPLIER INFORMATION FOR ALL ORGANS OF STATE AND FACILITATE THE VERIFICATION OF CERTAIN KEY SUPPLIER INFORMATION. ONLY FOREIGN SUPPLIERS WITH NO LOCAL REGISTERED ENTITY NEED NOT REGISTER ON THE CSD. THE CSD CAN BE ACCESSED AT HTTPS://SECURE.CSD.GOV.ZA/ .

NB: FAILURE TO PROVIDE / OR COMPLY WITH ANY OF THE ABOVE PARTICULARS MAY RENDER THE BID INVALID.

SIGNATURE OF BIDDER:

CAPACITY UNDER WHICH THIS BID IS SIGNED:

(Proof of authority must be submitted e.g. company resolution)

DATE: _____

Respondent's Signature

Date & Company Stamp

SECTION 2 : NOTICE TO BIDDERS**1 INVITATION TO BID**

Responses to this RFP [hereinafter referred to as a **Bid** or a **Proposal**] are requested from persons, companies, close corporations or enterprises [hereinafter referred to as an **entity, Respondent** or **Bidder**].

DESCRIPTION	FOR THE CLASS 20E, 21E AND 22E LOCOMOTIVE SUPPLY OF VARIOUS SPARE PARTS FOR TRANSNET ENGINEERING LOCOMOTIVE BUSINESS FOR A PERIOD OF THREE (3) YEARS "AS AND WHEN REQUIRED" BASIS (TE25-DBN-6GC-16060) [the Goods]
TENDER ADVERT	All Transnet tenders are advertised on the National Treasury's e-Tender Publication Portal and the Transnet website. Should one of these media (i.e. National Treasury's e-Tender Publication Portal or Transnet website) not be available, bidders are advised to check on the other media for advertised tenders.
RFP DOWNLOADING	This RFP may be downloaded directly from National Treasury's e-Tender Publication Portal at www.etenders.gov.za free of charge. To download RFP and Annexures: <ul style="list-style-type: none"> • Click on "Tender Opportunities"; • Select "Advertised Tenders"; • In the "Department" box, select Transnet SOC Ltd. Once the tender has been in the list, click on the "Tender documents" tab and process to download all uploaded documents. The RFP may also be downloaded from the Transnet Portal at https://transnetetenders.azurewebsites.net (please use Google Chrome to access Transnet link/site) free of charge (refer to section 2, paragraph 3 below for detailed steps)
COMMUNICATION	Transnet will publish the outcome of this RFP on the National Treasury e-tender portal and Transnet website with 10 days after the award has been finalised. All unsuccessful bidders have a right to request for reasons for their bid not being successful. This requested must be directed to the contact person stated in the SBD 1 form. Any addenda to the RFP or clarifications will be published on the National Treasury e-tender portal and Transnet website. Bidders are required to check the National Treasury e-tender portal or Transnet website prior to finalising their bid submissions for any changes or clarifications to the RFP. Transnet will not be held liable if Bidders do not receive the latest information regarding this RFP with the possible consequence of either being disadvantaged or disqualified as a result thereof.
BRIEFING SESSION	Yes - Compulsory Bidders are required to confirm their attendance and to send their contact details including the number of representatives (where applicable) to the following email address: lindy.vanzyl@transnet.net This is to ensure that Transnet may make the necessary arrangements for the briefing session. Refer to paragraph 2 for details.
CLOSING DATE EXTENSION	10:00am on Friday 29 May 2026 Bidders must ensure that bids are uploaded timeously onto the system. Generally, if a bid is late, it will not be accepted for consideration. Respondents are to submit bid documents by uploading them onto the Transnet system against each tender selected. A Bidder can upload 30mb per upload and multiple uploads are permitted. Bidders should ensure that electronic bid submissions are submitted at least a day before the closing date and bidders should not wait for the last hour before the deadline to submit. This is to enable them to timeously address

	issues which they may encounter due to internet speed, bandwidth or the size of the number of uploads being submitted. Transnet will not be held liable for any challenges experienced by bidders as a result of their own technical challenges.
VALIDITY PERIOD	<p>180 Business Days from Closing Date</p> <p>Bidders are to note that they may be requested to extend the validity period of their bid, at the same terms and conditions, if the internal evaluation process has not been finalised within the validity period. However, once the adjudication body has approved the process and award of the business to the successful bidder(s), the validity of the successful bidder(s)' bid will be deemed to remain valid until a final contract has been concluded.</p> <p>Should a bidder fail to respond to a request for extension of the validity period before it expires, that bidder will be excluded from tender process.</p> <p>With regard to the validity period of next highest ranked bidders, please refer to Section 2, paragraph 10.12</p>

Any additional information or clarification will be published on the e-Tender portal and Transnet website, if necessary.

2 FORMAL BRIEFING

A compulsory RFP briefing will be conducted via Microsoft Teams on the **18th of March 2026, at 10:00am** for a period of ± 2 hours. The briefing session will start punctually, and information will not be repeated for the benefit of Respondents joining late.

To join the meeting via Microsoft Teams, please use the link below:

[Tender Briefing Session TE25-DBN-6GC-16060 | Meeting-Join | Microsoft Teams](#)

Or

<https://teams.microsoft.com/meet/39663798827156?p=fCQFJWgrxe8jhtPJy4>

Meeting ID: 396 637 988 271 56

Passcode: kr2Ar6MK

(Bidders can click on either link to join the compulsory teams tender briefing session)

- 2.1 A Certificate of Attendance in the form set out in Section 10 hereto must be completed and submitted with your Proposal as proof of attendance is required for a **compulsory** site meeting and/or RFP briefing.
- 2.2 Respondents failing to attend the compulsory RFP briefing will be disqualified.
- 2.3 The briefing session will start punctually, and information will not be repeated for the benefit of the respondents connecting late. Respondents are encouraged to connect 15 minutes prior to the meeting 'kick off' time to avoid last said. Respondents are hereby requested to only join from 1 device in order for the RFP Tender briefing to be conducted with minimal technical challenges
- 2.4 Transnet will not be held responsible if any Respondent who did not attend the compulsory session subsequently feels disadvantaged as a result thereof.

- 2.5 Respondents are encouraged to have a copy of the RFP for the virtual tender briefing session. Should respondents have specific queries they should email these to the Transnet employee indicated in paragraph 7 until Friday 10 April 2026.

3 PROPOSAL SUBMISSION

Transnet has implemented a new electronic tender submission system, the e-Tender Submission Portal, in line with the overall Transnet digitalization strategy where suppliers can view advertised tenders, register their information, log their intent to respond to bids and upload their bid proposals/responses on to the system.

a) The Transnet e-Tender Submission Portal can be accessed as follows:

- a) Log on to the Transnet eTenders management platform website/ Portal (transnetetenders.azurewebsites.net)
- b) Click on "ADVERTISED TENDERS" to view advertised tenders;
- c) Click on "SIGN IN/REGISTER –to register new bidder information and ensure that all mandatory information is completed) OR;
- d) to sign in if already registered;
- e) Toggle (click to switch) the "Log an Intent" button to submit a bid;
- f) Submit bid documents by uploading them into the system against each tender selected.
- g) Respondents are to submit bid documents by uploading them onto the Transnet system against each tender selected. A Bidder can upload 30mb per upload and multiple uploads are permitted.
- h) Bidders should ensure that electronic bid submissions are submitted at least a day before the closing date and bidders should not wait for the last hour before the deadline to submit. This is to enable them to timeously address issues which they may encounter due to internet speed, bandwidth or the size of the number of uploads being submitted. Transnet will not be held liable for any challenges experienced by bidders as a result of their own technical challenges.
- i) No late submissions will be accepted. The bidder guide can be found on the Transnet Portal transnetetenders.azurewebsites.net
- j) Each company must register its own profile using its company details and use the corresponding registered profile to log an intent to bid as well as submitting any bid.
- k) Transnet will not accept a bid or will disqualify a bidder who submits a bid in the Transnet e-tender submission through another bidders'/Company's profile. In other words, each bidder must register the intent to bid and submit its bid through its own profile under the same company name that will eventually bid for the tender. No company shall submit a bid on behalf of another company regardless of the company being a subsidiary or holding company.
- l) In case of a Joint Venture, any of the parties/companies to the Joint Venture may use its registered profile to submit a bid on behalf of the Joint Venture.
- m) A detailed bidder guide can be found on the Transnet Portal transnetetenders.azurewebsites.net

4 RFP INSTRUCTIONS

- 4.1 Please sign documents [sign, stamp and date the bottom of each page] before uploading them on the system. The person or persons signing the submission must be legally authorised by the respondent to do so.
- 4.2 **All returnable documents tabled in the Proposal Form [Section 5] must be returned with proposals.**
- 4.3 Unless otherwise expressly stated, all Proposals furnished pursuant to this RFP shall be deemed to be offers. Any exceptions to this statement must be clearly and specifically indicated.
- 4.4 Any additional conditions must be embodied in an accompanying letter. Subject only to clause 15 [Alterations made by the Respondent to Bid Prices] of the General Bid Conditions, paragraph 12 below (Legal Review) and Section 6 of the RFP, alterations, additions or deletions must not be made by the Respondent to the actual RFP documents.

5 JOINT VENTURES OR CONSORTIUMS

Respondents who would wish to respond to this RFP as a Joint Venture [**JV**] or consortium with B-BBEE entities, must state their intention to do so in their RFP submission. Such Respondents must also submit a signed JV or consortium agreement between the parties clearly stating the percentage [%] split of business and the associated responsibilities of each party. If at the time of the bid submission such a JV or consortium agreement has not been concluded, the partners must submit confirmation in writing of their intention to enter into a JV or consortium agreement should they be awarded business by Transnet through this RFP process. This written confirmation must clearly indicate the percentage [%] split of business and the responsibilities of each party. In such cases, award of business will only take place once a signed copy of a JV or consortium agreement is submitted to Transnet.

- Respondents are to note that for the purpose of Evaluation, a JV will be evaluated based on one consolidated B-BBEE score card (a consolidated B-BBEE Status Level verification certificate) Preference points will be awarded to a bidder for attaining the specific goals requirements in accordance with the table indicated in Section 4.1 of the specific goals Claim Form.

6 COMMUNICATION (CLARIFICATIONS AND COMPLAINTS)

- 6.1 For specific clarification relating to this RFP, an RFP Clarification Request Form should be submitted to [**Lindy van Zyl – email: Lindy.vanzyl@transnet.net**] before 12:00pm on **01 May 2026**, substantially in the form set out in Section 8 hereto. In the interest of fairness and transparency, Transnet's response to such a query will be published on the e-tender portal and Transnet website.
- 6.2 Specific complaints relating to this RFP before or after the closing date should be formally submitted by emailing to groupscmcomplaints@transnet.net. Once the complaint has been submitted, the Transnet SCM Complaints office will acknowledge your complaint and send you a complaint form for completion.
- 6.3 After the closing date of the RFP, a Respondent may only communicate with the Acting Transnet Engineering Divisional Bid Adjudication Committee Secretariat (TEDBAC), at telephone number 012 749 1514, email nomvula.mathane@transnet.net on any matter relating to its RFP Proposal.
- 6.4 Respondents are to note that changes to its submission will not be considered after the closing date.

- 6.5 It is prohibited for Respondents to attempt, either directly or indirectly, to canvass any officer or employee of Transnet in respect of this RFP between the closing date and the date of the award of the business.
- 6.6 Respondents found to be in collusion with one another will be automatically disqualified and restricted from doing business with organs of state for a specified period.
- 6.7 Transnet will publish the outcome of this RFP in the National Treasury e-tender portal and Transnet website with 10 days after the award has been finalised. Respondents are required to check the National Treasury e-tender Portal and Transnet website for the results of the tender process. All unsuccessful bidders have a right to request Transnet to furnish reasons for their bid not being successful. This requested must be directed to the contact person stated in the SBD 1 form.

7 CONFIDENTIALITY

All information related to this RFP is to be treated with strict confidence. In this regard Respondents are required to certify that they have acquainted themselves with the Non-Disclosure Agreement. All information related to a subsequent contract, both during and after completion thereof, will be treated with strict confidence. Should the need however arise to divulge any information related to this RFP or the subsequent contract, written approval must be obtained from Transnet.

8 COMPLIANCE

The successful Respondent [hereinafter referred to as the **[Supplier]**] shall be in full and complete compliance with any and all applicable laws and regulations.

9 EMPLOYMENT EQUITY ACT

Respondents must comply with the requirements of the Employment Equity Act 55 of 1998 applicable to it including (but not limited to) Section 53 of the Employment Equity Act.

10 DISCLAIMERS

Respondents are hereby advised that Transnet is not committed to any course of action as a result of its issuance of this RFP and/or its receipt of Proposals. In particular, please note that Transnet reserves the right to:

- 10.1 modify the RFP's Goods/Services;
- 10.2 award a contract in connection with this Proposal at any time after the RFP's closing date;
- 10.3 award a contract for only a portion of the proposed Goods/Services which are reflected in the scope of this RFP;
- 10.4 split the award of the contract between more than one Supplier/Service provider, as may be explicitly articulated in the conditions or objective criteria to this RFP;
- 10.5 cancel the bid process;
- 10.6 validate any information submitted by Respondents in response to this bid. This would include, but is not limited to, requesting the Respondents to provide supporting evidence. By submitting a bid, Respondents hereby irrevocably grant the necessary consent to Transnet to do so;
- 10.7 request audited financial statements or other documentation for the purposes of a due diligence exercise;
- 10.8 not accept any changes or purported changes by the Respondent to the bid rates after the closing date and/or after the award of the business, unless the contract specifically provided for it;

- 10.9 to cancel the contract and/request that National Treasury place the Respondent on its Database of Restricted Suppliers for a period not exceeding 10 years, on the basis that a contract was awarded on the strength of incorrect information furnished by the Respondent or on any other basis recognised in law;
- 10.10 to award the business to the next ranked bidder, provided that he/she is still prepared to provide the required Goods at the quoted price, should the preferred bidder fail to sign or commence with the contract within a reasonable period after being requested to do so. Under such circumstances, the validity of the bids of the next ranked bidder(s) will be deemed to remain valid, irrespective of whether the outcome of the tender has been published the outcome of the bid process on the National Treasury e-tender Portal and Transnet website. Bidders may therefore be requested to advise whether they would still be prepared to provide the required Goods at their quoted price.

Note that Transnet will not reimburse any Respondent for any preparatory costs or other work performed in connection with its Proposal, whether or not the Respondent is awarded a contract.

11 LEGAL REVIEW

A Proposal submitted by a Respondent will be subjected to review and acceptance or rejection of its proposed contractual terms and conditions by Transnet's Legal Counsel, prior to consideration for an award of business. A material deviation from the Standard terms or conditions could result in disqualification.

12 SECURITY CLEARANCE

Acceptance of this bid could be subject to the condition that the Successful Respondent, its personnel providing the Goods/Services and its subcontractor(s) must obtain security clearance from the appropriate authorities to the level of **CONFIDENTIAL/ SECRET/TOP SECRET**. Obtaining the required clearance is the responsibility of the Successful Respondent. Acceptance of the bid is also subject to the condition that the Successful Respondent will implement all such security measures as the safe performance of the contract may require.

TRANSNET URGES ITS CLIENTS, SUPPLIERS AND THE GENERAL PUBLIC TO REPORT ANY FRAUD OR CORRUPTION TO:

IF YOU DON'T REPORT IT, YOU SUPPORT IT!



Email: Transnet.Reportit@outlook.com

Toll free: 0800 003 056

SMS: 0637867403

Please Call Me number: *120*0637867403

Website: <https://whistleblowersoftware.com/secure/Transnet>

SECTION 3: BACKGROUND, OVERVIEW AND SCOPE OF REQUIREMENTS

1 BACKGROUND

Transnet Engineering is responsible for the maintenance of the 20E/21/22E locomotives to Transnet Freight Rail. This includes both planned maintenance and unplanned repairs due to in-service failures.

2 EXECUTIVE OVERVIEW

Whereas Transnet is seeking a partner(s) to provide solutions for its 20E/21/22E various spare parts nationally, it also seeks to improve its current processes for providing these Goods/Services to its end user community throughout its locations.

The selected Supplier/Service provider(s) must share in the mission and business objectives of Transnet. These mutual goals will be met by meeting contractual requirements and new challenges in an environment of teamwork, joint participation, flexibility, innovation and open communications. In this spirit of partnership, Transnet and its Supplier/Service provider(s) will study the current ways they do business to enhance current practices and support processes and systems. Such a partnership will allow Transnet to reach higher levels of quality, service and profitability.

Specifically, Transnet seeks to benefit from this partnership in the following ways:

- 2.1 Transnet must receive reduced cost of acquisition and improved service benefits resulting from the Supplier/Service provider's economies of scale and streamlined service processes.
- 2.2 Transnet must achieve appropriate availability that meets user needs while reducing costs for both Transnet and the chosen Supplier/Service provider(s).
- 2.3 Transnet must receive proactive improvements from the Supplier/Service provider with respect to supply/provision of Goods/Services and related processes.
- 2.4 Transnet's overall competitive advantage must be strengthened by the chosen Supplier/Service provider's leading edge technology and service delivery systems.
- 2.5 Transnet end users must be able to rely on the chosen Supplier/Service provider's personnel for service enquiries, recommendations and substitutions.
- 2.6 Transnet must reduce costs by streamlining its acquisition of Goods/Services, including managed service processes on a Group basis.

3 SCOPE OF REQUIREMENTS

Transnet plans to procure the following estimated volumes of the 20E/21E/22E various spare parts over a period of three (3) years on an "as and when required" basis:

Item	Description	Estimated Qty over the 3-year period
011827413	LOUVER; TYPE: TRACTION, DIMENSIONS: WD 740 MM X LG 1.406 M X HT 68 MM; P/N: 1730000198, CSR CORPORATION LIMITED; DRAWING NO: 1730000198, LA; AJA1013510A, LA, ITEM: 1; ELECTRIC LOCOMOTIVE CLASS 22E, SIDE WINDOW	4

067823222	FILTER,INTAKE; TYPE TRACTION MOTOR BLOWER; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E; DIMENSIONS: WD 840 MM X LG 1206 M X THK 68 MM; FILTRATION EFFICIENCY (60 MICRON):GREATER THAN OR EQUAL TO 40% AT 1.5 M3/S FLOW; PRESSURE LOSS: 78 PA -/+ 20 PA AT 1.5 M3/S FLOW; COATING: RAL 7024 - GRAPHITE GREY ACRYLIC POLYURETHANE PAINT; CONSISTS OF: 1. OUTER FRAME - FT-GL-NF(Q)-01, 2. DOOR FRAME - FT-GL-NF(Q)-02, 3. FILTER ELEMENT - FT-GL-NF(Q)-0201; 4. HINGES X2 - CL226-3, 5. COMPRESSION DOOR LOCKS X3 - E3-110-25; INTERNAL USE: CRRC P/N: 1730000151; MAINTENANCE MANUAL: MM0605	4
067823223	FILTER, INTAKE; TYPE: MACHINE ROOM BLOWER; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E; DIMENSIONS: WD 1160 MM X LG 1206 MM X THK 68 MM; FILTRATION EFFICIENCY (60 MICRON): GREATER THAN OR EQUAL TO 42% AT 2.0 M3/S FLOW; PRESSURE LOSS? 190 PA - /+ 20 PA AT 1.5 M3/S FLOW; COATING: RAL 7024 - GRAPHITE GREY ACRYLIC POLYURETHANE PAINT; CONSISTS OF: 1. SPONGE FILTER FRAME - FT-GL-NF(J)-03, 2. SPONGE FILTER -FT-GL-NF(J)-00-01; 3. OUTER FRAME - FT-GL-NF(J)-01 4. DOOR FRAME - FT-GL-NF(J)-02, 5. FILTER ELEMENT - FT-GL-NF(J)-0201, 6. COMPRESSION DOOR LOCKS X3 - E3-110-25, 7. HINGES X2 - CL226-3, ITEM NUMBER FOR SPONGE FILTER 084838837; INTERNAL USE: CRRC P/N: 1730000152; MAINTENANCE MANUAL: MM0605	2
084818016	GRID; TYPE: VENTILATION, COOLING TOWER; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E COOLING TOWER; MATERIAL: STAINLESS STEEL; CONSISTS OF: 6X FILTERS (ITEM 084854393), 1X FLANGE; DIMENSIONS: 1150MM X 1002MM X 65MM; INTERNAL USE: CRRC P/N: 80000954000051; MM0609	20
084837433	GRID; TYPE: VENTILATION COOLING TOWER, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E COOLING TOWER; MATERIAL: STAINLESS STEEL; CONSISTS OF: 6X FILTERS (ITEM 084850788), 1X FLANGE; DIMENSIONS: 1285MM X 1002MM X 69.5MM; INTERNAL USE: CRRC P/N: 3910000975; MM0609	15
084838837	FILTER, ELEMENT; TYPE: MACHINE ROOM, AIR, DIMENSIONS: WD 990 X LG 1000 X THK 20 MM; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E MACHINE ROOM INTAKE; ELEMENT MATERIAL: POLYURETHANE FOAM; DIMENSIONS: WD 990 X LG 1000 X THK 20 MM; PORES PER INCH: 60 PPI; INTERNAL USE: CRRC P/N: 1000X990X20-60PPI; MAINTENANCE MANUAL: MM0605	1600
084838838	FILTER, ELEMENT; TYPE: AIR, MACHINE ROOM, DIMENSIONS: WD 550 X LG 1196 X THK 20 MM; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E MACHINE ROOM INTAKE; ELEMENT MATERIAL: POLYURETHANE FOAM; DIMENSIONS: WD 550 X LG 1196 X THK 20 MM; PORES PER INCH: 60 PPI; INTERNAL USE: CRRC P/N: 1196X550X20-60PPI; MAINTENANCE MANUAL: MM0605; THE MACHINE ROOM INTAKE FILTER HAS OF TWO FOAM FILTER ELEMENTS PER FILTER: OUTER FILTER ELEMENT: 084861803	3316
084844174	FILTER ASSEMBLY, ELECTRICAL; P/N: TE020-350000, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: TE020-350000, LA, CRRC CORPORATION LIMITED; FOR PF1,X91,X92,X93; QUANTITY PER CONVERTER CABINET: 1X2; ELECTRIC LOCOMOTIVE CLASS 21E ; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	15
084853850	KIT, AIR FILTER; TYPE: SERVICE; P/N: F72G-KITM05, NORGREN; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E PANTO CONTROL; INCLUDES O-RINGS AND 5 UM FILTER ELEMENT; INTERNAL USE: MAINTENANCE MANUAL: MM0101-ADD	3336
084837512	FILTER, AIR; TYPE: F72G-2GN-QD1; P/N: F72G-2GN-QD1/LN, NORGREN; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E PANTO CONTROL; MEDIUM: COMPRESSED AIR; MAX INLET PRESSURE: 17 BAR; OPERATING TEMP: -40C TO 65 °C; FILTER ELEMENT: 5 MICRON; BOWL: METAL WITH	110
071817928	SENSOR, TEMPERATURE; P/N: 3451000154, CSR CORPORATION LIMITED; DRAWING NO: 3451000154, LA; AXLE TEMP. SENSOR; DRAWING NO: 3451000154, LA; AXLE TEMPERATURE SENSOR; ELECTRIE CLASS 20E/21E/22E; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH: 3.1 M; 20E/21E POSITION (13;24;33;44). 22E POSITION (24;33;34;43;44;53). NON-PROGRAMMED	1200

071817929	SENSOR, TEMPERATURE; P/N: 3451000155, CSR CORPORATION LIMITED; DRAWING NO: 3451000155, LA; AXLE TEMP. SENSOR; DRAWING NO: 3451000155, LA; AXLE TEMPERATURE SENSOR; ELECTRIE CLASS 20E/21E/22E; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 3.3 M; 20E/21E POSITION (23;34). 22E POSITION (13;14;23;54;63;64). NON-PROGRAMMED	960
071874695	SENSOR, TEMPERATURE; P/N: 3233000230, CSR CORPORATION LIMITED; AXLE TEMP. SENSOR; DRAWING NO: AB01020271A, LA; AXLE TEMPERATURE SENSOR; ELECTRIC CLASS 22E; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 2.4 M; 22E POSITION (22;35;45;52). NON-PROGRAMMED	480
071874696	SENSOR, TEMPERATURE; P/N: 3233000231, CSR CORPORATION LIMITED; AXLE TEMP. SENSOR; DRAWING NO: AB01020271A, LA; ELECTRIC CLASS 22E; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 2.5 M; 22E POSITION (15;62). NON-PROGRAMMED	240
071874697	SENSOR, TEMPERATURE; P/N: 3233000232, CSR CORPORATION LIMITED; AXLE TEMP. SENSOR; DRAWING NO: AB01020271A, LA; ELECTRIC CLASS 22E; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 3.5 M; 22E POSITION (25;55). NON-PROGRAMMED	240
071874698	SENSOR, TEMPERATURE; P/N: 3233000228, CSR CORPORATION LIMITED; AXLE TEMP. SENSOR; DRAWING NO: AB01020271A, LA; ELECTRIC CLASS 22E; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 1.3 M; 22E POSITION (32;44). NON-PROGRAMMED	240
071874699	SENSOR, TEMPERATURE; P/N: 3233000229, CSR CORPORATION LIMITED; AXLE TEMP. SENSOR; DRAWING NO: AB01020271A, LA; ELECTRIC CLASS 22E; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 1.5 M; 22E POSITION (12;62). NON-PROGRAMMED	240
061825849	SENSOR, TEMPERATURE; P/N: 3451000193, CSR CORPORATION LIMITED; AXLE TEMP. SENSOR; DRAWING NO: AB01020271A, LA; AXLE TEMPERATURE SENSOR; ELECTRI E CLASS 22E; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 1 M; 22E POSITION (11;16;21;2 6;31;46;51;56;61;66). NON-PROGRAMMED	1200
061825850	SENSOR, TEMPERATURE; P/N: 3451000194, CSR CORPORATION LIMITED; AXLE TEMP. SENSOR; DRAWING NO: AB01020271A, LA; ELECTRI E CLASS 22E; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 1.7 M; 22E POSITION (36;41). NON-PROGRAMMED	240
071817925	SENSOR, TEMPERATURE; P/N: 3451000151, CSR CORPORATION LIMITED; AXLE TEMP. SENSOR; DRAWING NO: 3451000151, LA; ELECTRIE CLASS 20E/21E/; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 1.3 M; 20E/21E POSITION (16;26;31;41) NON-PROGRAMMED	480
071817926	SENSOR, TEMPERATURE; P/N: 3451000152, CSR CORPORATION LIMITED; AXLE TEMP. SENSOR; DRAWING NO: 3451000151, LA; ELECTRIE CLASS 20E/21E/; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 2.4 M; 20E/21E POSITION (11;21;36;46) NON-PROGRAMMED	480
071817927	SENSOR, TEMPERATURE; P/N: 3451000153, CSR CORPORATION LIMITED; AXLE TEMP. SENSOR; DRAWING NO: 3451000151, LA; ELECTRIE CLASS 20E/21E/; MM0414 - BOGIE AXLE TEMPERATURE ALARM SYSTEM FIGURE 5.3 PAGE 19; LENGTH 2.8 M; 20E/21E POSITION (14;43) NON-PROGRAMMED	240
085825855	SENSOR P/N: 3433000169 CSR CORPORATION LIMITED TRANSITION LINE; ELECTRIC LOCOMOTIVE CLASS 22E BOGIE WIRING DRAWING NO: AB01013861A CSR CORPORATION LIMITED REV LATEST ITEM 21	16
085825856	SENSOR TRANSITION LINE; ELECTRIC LOCOMOTIVE CLASS 22E BOGIE WIRING DRAWING NO: 3433000170 REV LATEST, AB01013861A CSR CORPORATION LIMITED REV LATEST ITEM 22	16
085825857	SENSOR P/N: 3451000197 CSR CORPORATION LIMITED TRANSITION LINE; ELECTRIC LOCOMOTIVE CLASS 22E BOGIE WIRING DRAWING NO: AB01013861A CSR CORPORATION LIMITED REV LATEST ITEM 23	16

085839247	SENSOR, TEMPERATURE; STYLE DESIGNATOR: PT100 AMBIENT, APPLICATION: ELECTRICAL LOCOMOTIVE CLASS 20E/21E/22E; AMBIENT AIR AND AXLE BOX TEMPERATURE SENSOR; SPECIFICATION: INPUT SIGNAL: -50 TO 200 DEG C, OUTPUT SIGNAL: IEC751 TCR = 0.003851, ACCURACY: GRADE B, JUMO P/N: 902004/15-1008-999-CSJY; DESIGNATION: 34-B25 - AMBIENT TEMPERATURE SENSOR LOCATED EXTERNALLY ALONGSIDE SHORE SUPPLY SOCKETS, MM0151-1; BOGIE AXLE TEMPERATURE ALARM SYSTEM SENSORS LOCATED ON AXLE BOX; MM0414; CRRC P/N: 80006911001274	16
068823172	SENSOR; 3233000072, CSR CORP; SENSOR; TYPE: ANTI SLIDING; ELECTRIC LOCOMOTIVE CLASS 20E BOGIE	86
085819758	SENSOR P/N: 3451000150 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 20E	16
085821329	SENSOR, TEMPERATURE; P/N: 6911001273, CSR CORPORATION LIMITED	30
085838902	SENSOR, TEMPERATURE; P/N: 1B93700100G00, CRRC CORPORATION LIMITED; YQ-775 TRACTION MOTOR; ELECTRIC LOCOMOTIVE CLASS 20E, 21E AND 22E	160
085848256	SENSOR; TYPE: SPEED, YQ-775-1 CSR TRACTION MOTOR; P/N: 1B96600012G00, CRRC CORPORATION LIMITED; SPEED SENSOR ASSEMBLY; ELECTRIC LOCOMOTIVE CLASS 22E	160
085823279	CHARGER, BATTERY ELECTRIC LOCOMOTIVE CLASS 20E SPECIFICATION: 2x24-4 24V/12V DRAWING NO: 80006200001222 CSR CORPORATION LIMITED REV LATEST	10
085831777	CHARGER, BATTERY; P/N: 6200001221, CSR CORPORATION LIMITED; DRAWING NO: 6200001221 CSR COR, LA; SPECIFICATION: 380/110-30A, LA; ELECTRIC LOCOMOTIVE CLASS 20E; 22E	10
085831779	MONITOR; TYPE: BATTERY CHARGER; P/N: 6200001219, CSR CORPORATION LIMITED; DRAWING NO: 6200001219 CSR COR, LA; SPECIFICATION: 380/110, LA; ELECTRIC LOCOMOTIVE CLASS 20E; 22E	10
011820498	BUSBAR; TYPE: ROOF CONNECTION, 20/21/22E, MATERIAL: COPPER, TINNED, DIMENSIONS: WD 50 X LG 200 X THK 15 MM; DRAWING NO: PEL99M_00371, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E ROOF EQUIPMENT TINNED TO SPECIFICATION ISO-2093:1986: SERVICE CONDITION: 4 - EXCEPTIONALLY SEVERE; MINIMUM TIN THICKNESS: 15 MICRON; SURFACE FINISH: BRIGHT ELECTROPLATED; ADHESION TEST: SCRIBE TEST AS DESCRIBED IN ISO-2819:2017; SAMPLING METHOD FOR ADHESION TEST: RANDOM AT 10%; INTERNAL USE: CRRC P/N: ZRAJA1007741; DRAWING: ZRAJA100 6505 ITEM 28; DRAWING: AJA1011430 ITEM 28	180
011820499	BUSBAR; TYPE: ROOF CONNECTION, 20/21E, MATERIAL: COPPER, TINNED, DIMENSIONS: WD 50 X LG 270 X THK 15 MM; DRAWING NO: PEL99M_00368, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E ROOF EQUIPMENT TINNED TO SPECIFICATION ISO-2093:1986: SERVICE CONDITION: 4 - EXCEPTIONALLY SEVERE; MINIMUM TIN THICKNESS: 15 MICRON; SURFACE FINISH: BRIGHT ELECTROPLATED; ADHESION TEST: SCRIBE TEST AS DESCRIBED IN ISO-2819:2017; SAMPLING METHOD FOR ADHESION TEST: RANDOM AT 10%; INTERNAL USE: CRRC P/N: ZRAJA1008010A; DRAWING: ZRAJA1006505 ITEM 29	180

011820501	<p>BUSBAR; TYPE: ROOF CONNECTION, 20/21E, MATERIAL: COPPER, TINNED, DIMENSIONS: WD 50 X LG 340 X THK 15 X HT 55 MM; DRAWING NO: PEL99M_00369, LA; APPLICATION:ELECTRIC LOCOMOTIVE CLASS 20E/21E ROOF EQUIPMENT TINNED TO SPECIFICATION ISO-2093:1986: SERVICE CONDITION: 4 - EXCEPTIONALLY SEVERE; MINIMUM TIN THICKNESS: 15 MICRON; SURFACE FINISH: BRIGHT ELECTROPLATED; ADHESION TEST: SCRIBE TEST AS DESCRIBED IN ISO-2819:2017; SAMPLING METHOD FOR ADHESION TEST: RANDOM AT 10%;</p> <p>INTERNAL USE: CRRC P/N: ZRAJA1008012; DRAWING: ZRAJA10 06505 ITEM 31</p>	180
011825004	<p>BUSBAR; TYPE: ROOF CONNECTION, 20/21/22E, MATERIAL: COPPER, TINNED, DIMENSIONS: WD 75 X LG 145 X THK 15 X HT 100 MM; DRAWING NO: PEL99M_00373, LA; APPLICATION:LOCOMOTIVE CLASS 20E/21E/22E ROOF EQUIPMENT TINNED TO SPECIFICATION ISO-2093:1986: SERVICE CONDITION: 4 - EXCEPTIONALLY SEVERE; MINIMUM TIN THICKNESS: 15 MICRON; SURFACE FINISH: BRIGHT ELECTROPLATED; ADHESION TEST: SCRIBE TEST AS DESCRIBED IN ISO-2819:2017; SAMPLING METHOD FOR ADHESION TEST: RANDOM AT 10%;</p> <p>INTERNAL USE: CRRC P/N: ZRAJA1008366; DRAWING: ZRAJA100 5503 ITEM 11; DRAWING: ZRAJA1006505 ITEM 40; DRAWING: AJA1013616 ITEM 26; DRAWING: AJA1011430 ITEM 40</p>	720
011825005	<p>BUSBAR; TYPE: ROOF CONNECTION, MATERIAL: COPPER, TINNED, DIMENSIONS: WD 90 X LG 130 X THK 15 X HT 127 MM, SHAPE: L; DRAWING NO: PEL99M_00372, LA; APPLICATION:ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E ROOF EQUIPMENT TINNED TO SPECIFICATION ISO-2093:1986: SERVICE CONDITION: 4 - EXCEPTIONALLY SEVERE; MINIMUM TIN THICKNESS: 15 MICRON; SURFACE FINISH: BRIGHT ELECTROPLATED; ADHESION TEST: SCRIBE TEST AS DESCRIBED IN ISO-2819:2017; SAMPLING METHOD FOR ADHESION TEST: RANDOM AT 10%;</p> <p>INTERNAL USE: CRRC P/N: ZRAJA1008368; DRAWING: ZRAJA1006505 ITEM 41; DRAWING: ZRAJA1005503 ITEM 26; DRAWING: AJA1013616 ITEM 11; DRAWING: AJA1011430 ITEM 24</p>	360
085818221	<p>BUSBAR; TYPE: FLEXIBLE ASSEMBLY, MATERIAL: COPPER, DIMENSIONS: WD 60 X LG 300 X THK 20 MM; RATED CURRENT: 1440 AMPERE; CONSTRUCTION: 100 FLEXIBLE COPPER SHEETS 0.2 MM THICK, 60 MM WIDE AND 325 MM LONG. THE SHEETS SHALL BE SILVER SOLDERED TOGETHER FROM BOTH ENDS 90 MM INWARDS AND THE UNSOLDERED AREA SHALL BE FLEXIBLE; EQUIPMENT USED ON: CLASS 20E/21E/22E - MAIN TRANSFORMER TO PCC INTERFACE; DRAWING: PEL99M_00025, PEL99M_00024; REFERENCE STANDARD: BS EN 12167; INTERNAL USE: OEM PART NUMBER ZR3520002206; DRAWING: AJE1001626; MAINTENANCE MANUA:L MM0117</p>	50

085819572	BUSBAR; TYPE: ROOF; DRAWING NO: PEL99M_00079, LA; SPECIFICATION: BBH5561, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E ROOF 1 ; MATERIAL: COPPER WITH TINNED CONNECTION POINTS; PAINT SPECIFICATION: PRIMER: RAL3012, FINISH: RAL 3020 WITH 80/20° GLOSS; INTERNAL USE: BUSBAR 1 ON ROOF 1; CRRP P/N: AJA1006669	80
085819573	BUSBAR; TYPE: ROOF 3; DRAWING NO: PEL99M_00080, LA; SPECIFICATION: BBH5561, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E ROOF 3; MATERIAL: COPPER WITH TINNED CONNECTION POINTS; PAINT SPECIFICATION: PRIMER: RAL3012, FINISH: RAL 3020 WITH 80/20° GLOSS; INTERNAL USE: BUSBAR 3 ON ROOF 3; CRRP P/N: AJA1006772	80
085827509	BUSBAR; TYPE: DIRECT CURRENT SENSOR LONG; DRAWING NO: RT-BLE-159, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E HT CUBICLE; MATERIAL: COPPER WITH TINNED CONNECTION POINTS; DRAWING: RT-BLE-159, LA; MATERIAL: 10MM FLAT COPPER; DIMENSIONS: 1105MM X 100MM; INTERNAL USE: CRRP P/N: AJA1010965A; APPLICATION: AJA1012443A IT 10; MAINTENANCE MANUAL: MM0140	100
085827822	BUSBAR; TYPE: ROOF 1; DRAWING NO: PEL99M_0081, LA; SPECIFICATION: BBH5561, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E ROOF 1; MATERIAL: COPPER WITH TINNED CONNECTION POINTS; PAINT SPECIFICATION: PRIMER: RAL3012, FINISH: RAL 3020 WITH GREATER THAN OR EQUAL TO 80/20° GLOSS; INTERNAL USE: BUSBAR ON ROOF 1; CRRP P/N: AJA1006672	177
085827948	BUSBAR; TYPE: ROOF 2; DRAWING NO: PEL99M_0084, LA; SPECIFICATION: BBH5561, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E ROOF 2; MATERIAL: COPPER WITH TINNED CONNECTION POINTS; DRAWING: PEL99M_0084; SPECIFICATION: BBH5561; PAINT SPECIFICATION: PRIMER: RAL3012, FINISH: RAL 3020 WITH GREATER THAN OR EQUAL TO 80/20° GLOSS; INTERNAL USE: BUSBAR 2 ON ROOF 2; CRRP P/N: AJA1013651	177
085827949	BUSBAR; TYPE: ROOF 3; DRAWING NO: PEL99M_0082, LA; SPECIFICATION: BBH5561, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E ROOF 3; MATERIAL: COPPER WITH TINNED CONNECTION POINTS; PAINT SPECIFICATION: PRIMER: RAL3012, FINISH: RAL 3020 WITH 80/20° GLOSS; INTERNAL USE: BUSBAR 1 ON ROOF 3; CRRP P/N: AJA1013693	177
085828965	BUSBAR; TYPE: ROOF 3; SPECIFICATION: BBH5561, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E ROOF 3; MATERIAL: COPPER WITH TINNED CONNECTION POINTS; DRAWING: PEL99M_00105, PEL99M_0083, PEL99M_0102; PAINT SPECIFICATION: PRIMER: RAL3012, FINISH: RAL 3020 WITH GREATER THAN OR EQUAL TO 80/20° GLOSS; WELDED JOINT SHALL COMPLY WITH EN 15085; INTERNAL USE: BUSBAR 2 ON ROOF 3; CRRP P/N: AJA1013696	177
085840887	BUSBAR; TYPE: ROOF 2; SPECIFICATION: BBH5561, LA; DRAWING NO: PEL99M_00110, PEL99M_00109, PEL99M_00102, PEL99M_00103 LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E ROOF 2; MATERIAL: COPPER WITH TINNED CONNECTION POINTS; PAINT SPECIFICATION: PRIMER: RAL3012, FINISH: RAL 3020 WITH GREATER THAN OR EQUAL TO 80/20° GLOSS; WELDED JOINT SHALL COMPLY WITH EN 15085; INTERNAL USE: BUSBAR 2 ON ROOF 2; CRRP P/N: AJA1011418	80
085845742	BUSBAR; TYPE: AC INTER CONNECTOR; DRAWING NO: TFR BBH6738, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E HIGH VOLTAGE CUBICLE; MATERIAL: 5MM COPPER; ELECTROPLATED ACCORDING TO BS 1872; INTERNAL USE: CONNECTION BETWEEN VCB, AC ARRESTER AND HT TRANSFORMER CABLE; CRRP P/N: AJE1015212A (FOR REFERENCE ONLY); MAINTENANCE MANUAL: MM0149	110

085846271	BUSBAR; TYPE: DIRECT CURRENT SHORT, 22E, MATERIAL: COPPER, DIMENSIONS: WD 100 X LG 245.5 MM; DRAWING NO: RT-BLE-158, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E HT CUBICLE; MATERIAL: COPPER WITH TINNED CONNECTION POINTS; MATERIAL: 10MM FLAT COPPER; DIMENSIONS: WD 100MM X LG 245.5MM; INTERNAL USE: CRRC P/N: AJA1011034A; APPLICATION: AJA1012443A IT 9; MAINTENANCE MANUAL: MM0140	100
084827442	BUSHING P/N: AB01013426A CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E CONNECTING BAR ASSEMBLY DRAWING NO: AB01013426A REV LATEST, AB01013566A REV LATEST ITEM 2	320
084827444	BUSHING TYPE NO 1 P/N: AB01013427A CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E ELBOW ASSEMBLY DRAWING NO: AB01013427A REV LATEST, AB01013569A REV LATEST ITEM 3	1280
084827445	BUSHING TYPE NO 2 P/N: AB01013428A CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E ELBOW ASSEMBLY DRAWING NO: AB01013428A REV LATEST, AB01013569A REV LATEST ITEM 1	640
085837527	PUSH BUTTON; TYPE: VIGILANCE NPNA-21E; P/N: 80003387000714, CRRC CORPORATION LIMITED; DRAWING NO: PEL087C0016, LA; VOLTAGE RANGE: 250V AC/110V DC CURRENT RANGE: 10 A/2.5 A WIRE CAPACITY AND FASTENING: 2.5MM ² ; SCREW TYPE TERMINAL RANGE: 1 NO AND NC CENTRAL POINT MOMENTARY SNAP ACTION VOLTAGE TERMINALS: GOLD-PLATED OVER SILVER IEC60947-5-1 COMPLIANT, IP65 PROTECTION OPERATING FORCE AND TRAVEL: MAX 12N/5MM±0.2MM TEMPERATURE RANGE: -25°C TO 55°C ELECTRIC SHOCK PROTECTION BUTTON COLOR: RED RECTANGULAR FLUSH PUSHBUTTON RED/200 MCD LED PILOT LIGHT PLASTIC MATERIAL BLACK BEZEL ELECTRIC LOCOMOTIVE CLASS 21E	80
085837528	PUSH BUTTON; TYPE: AIR HORN NPNA-21E; P/N: 80003387010209, CRRC CORPORATION LIMITED; DRAWING NO: PEL087C0021, LA; VOLTAGE RANGE: 110V DC CURRENT RANGE: 1 A WIRE CAPACITY AND FASTENING: 2.5MM ² ; SCREW TYPE TERMINAL RANGE: 1 NO CONTACT, SNAP ACTION VOLTAGE TERMINALS: GOLD-PLATED OVER SILVER IEC60947-5-1 COMPLIANT, IP65 PROTECTION OPERATING FORCE AND TRAVEL: MAX 2.5N/5.8MM±0.2MM TEMPERATURE RANGE: -40°C TO 55°C ELECTRIC SHOCK PROTECTION BUTTON COLOR: GREEN PLASTIC MATERIAL BLACK ALUMINUM BEZEL ELECTRIC LOCOMOTIVE CLASS 21E	80
085840588	PUSH BUTTON; TYPE: EMERGENCY; P/N: 80003387010214, CRRC CORPORATION LIMITED; DRAWING NO: PEL087C0012, LA; VOLTAGE RANGE: 110V DC CURRENT RANGE: 2.5 A WIRE CAPACITY AND FASTENING: 2.5MM ² ; SCREW TYPE TERMINAL RANGE: 2 NO AND 2 NC SLOW MAKE SWITCHING ELEMENTS VOLTAGE TERMINALS: GOLD-PLATED OVER SILVER IEC60947-5-1 COMPLIANT, IP65 PROTECTION OPERATING FORCE AND TRAVEL: MAX 5N/5.8MM±0.2MM TEMPERATURE RANGE: -40°C TO 55°C ELECTRIC SHOCK PROTECTION BUTTON COLOR: RED ACTUATOR WITH LOCK FUNCTION PLASTIC MATERIAL YELLOW PROTECTIVE SHROUD; ELECTRIC LOCOMOTIVE CLASS 21E/22E	16
085843666	PUSH BUTTON; TYPE: PARK BRAKE; P/N: 80003387010207, CRRC CORPORATION LIMITED; DRAWING NO: PEL087C0008, LA; VOLTAGE RANGE: 110V DC CURRENT RANGE: 1 A WIRE CAPACITY AND FASTENING: 2.5MM ² ; SCREW TYPE TERMINAL RANGE: 2 NO CONTACTS SNAP ACTION VOLTAGE TERMINALS: GOLD-PLATED OVER SILVER IEC60947-5-1 COMPLIANT, IP65 PROTECTION OPERATING FORCE AND TRAVEL: MAX 5N/5.8MM±0.2MM TEMPERATURE RANGE: -40°C TO 55°C ELECTRIC SHOCK PROTECTION BUTTON COLOR: RED WITH LAMP BLOCK AND 2.5MM SCREW TERMINAL FLUSH PUSHBUTTON WHITE/225 MCD LED PILOT LIGHT PLASTIC MATERIAL SILVER (ANODIZED) ALUMINUM BEZEL ELECTRIC LOCOMOTIVE CLASS 21/22E	40
085843667	PUSH BUTTON; TYPE: SEE ME HOME, COLOR: GREEN; DRAWING NO: PEL087C0000, LA; VOLTAGE RANGE: 110V DC CURRENT RANGE: 1 A WIRE CAPACITY AND FASTENING: 2.5MM ² ; SCREW TYPE TERMINAL RANGE: 2 NO CONTACTS SNAP ACTION VOLTAGE TERMINALS: GOLD-PLATED OVER SILVER IEC60947-5-1 COMPLIANT, IP65 PROTECTION OPERATING FORCE AND TRAVEL: MAX 5N/5.8MM±0.2MM TEMPERATURE RANGE: -40°C TO 55°C ELECTRIC SHOCK PROTECTION BUTTON COLOR: GREEN FLUSH PUSHBUTTON PLASTIC MATERIAL SILVER (ANODIZED) ALUMINUM BEZEL; ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; REFERENCE TO 80003387010210, CRRC CORPORATION LIMITED	40

061851611	CABLE, ELECTRICAL; TYPE: YQ-775 TRACTION MOTOR, COLOR: BLACK, POTENTIAL: 3.6 KV, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E ; SPECIFICATION:RS/EE/SP/015 , LA; CROSS SECTION:150MM2 OUTER DIAMETER 26.50MM +- 0.3; NOM. WALL THICKNESS: INSULATION 2.90MM; S HEATH 2.1MM, CONDUCTOR CONSTRUCTION [N X MM] 703 X 0.50 SUPPLIER SHALL PROVIDE MANUFACTURER'S DATASHEET THAT CLEARLY INDICATES COMPLIANCE TO SPECIFICATIONS	1000
061854990	CABLE, ELECTRICAL; CONDUCTOR QUANTITY: 1 CORE, CONDUCTOR DIAMETER: 150 MM2, POTENTIAL: 3.6/6 KV; CABLE DIAMETER: 22.9 MM (MIN), 26.8 MM (MAX); CABLE COLOUR: BLACK; CONDUCTOR: STRANDED, TIN-COATED ANNEALED COPPER WIRE, CLASS 5; INSULATION: CROSS-LINKED COMPOUND TYPE EI 107 IN ACCORDANCE WITH EN 50264-3-1; OUTER SHEATH/JACKET: CROSS LINKED EVA, EM 102 IN ACCORDANCE WITH EN 50264-3-1; EQUIPMENT USED ON: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; REFERENCE STANDARD: RS/EE/SP/015 REV 05 (SPECIAL REFERENCE TO EN 50264-3-1: 2008); SUPPLIER SHALL PROVIDE MANUFACTURER'S DATASHEET THAT CLEARLY INDICATES COMPLIANCE TO SPECIFICATIONS. INTERNAL USE: 20E/21EP/N: 3423000770; 22E P/N: 3423000923; 20E DRAWING: ZRAJE1000825 ITEM 15 - 150M; 21E DRAWING: AJE1001434 ITEM 15 - 150M; 22E DRAWING: AJE1001696 ITEM 11 - 160M	2000
085819432	CABLE, ELECTRICAL; CONDUCTOR QUANTITY: 1 CORE, CONDUCTOR DIAMETER: 185 MM2, POTENTIAL: 3.6/6 KV; CABLE DIAMETER: 25.1 MM (MIN), 29.4 MM (MAX); CABLE COLOUR: BLACK; CONDUCTOR: STRANDED, TIN-COATED ANNEALED COPPER WIRE, CLASS 5; INSULATION: CROSS-LINKED COMPOUND TYPE EI 107 IN ACCORDANCE WITH EN 50264-3-1; OUTER SHEATH/JACKET: CROSS LINKED EVA, EM 102 IN ACCORDANCE WITH EN 50264-3-1; EQUIPMENT USED ON: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; REFERENCE STANDARD: RS/EE/SP/015 REV 05 (SPECIAL REFERENCE TO EN 50264-3-1: 2008); SUPPLIER SHALL PROVIDE MANUFACTURER'S DATASHEET THAT CLEARLY INDICATES COMPLIANCE TO SPECIFICATIONS. INTERNAL USE: 20E/21E P/N: 3423000771; 22E P/N: 3423000920; 20E DRAWING: ZRAJE1000825 ITEM 1 - 60M; 21E DRAWING: AJE1001434 ITEM 1 - 60M; 22E DRAWING: AJE1001696 ITEM 3 - 70M	3500
085826938	CAMERA, TELEVISION; P/N: 6200001879, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E ROOF 2	35
054859882	BREAKER, CIRCUIT; TYPE: MINIATURE, INTERRUPT CAPACITY: 6 A, POLE: DOUBLE; TYPE: 6A DOUBLE POLE MCB; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E LVC; STANDARDS: EN/IEC 60947-2, EN/IEC 60898-2, VDE 0641-2/3; TRIPPING CHARACTERISTICS: C; RATED CURRENT: 6A; RATED AC VOLTAGE: 230V; VIBRATION RESISTANCE (IEC 77/16.3): 5G; SELFEXTINGUISH DEGREE (UL94): V2; TROPICALISATION (EN 60068-2/DIN 40046): +55C/95% RH; MOUNTING: DIN RAIL; OEM P/N: EP102RUCC06; DESIGNATION: MCB_LVC <(>&<)> TOILET FAN =34-F770; CRRC P/N: 80003301000521; REFERENCE: MM0123-3	30
085817525	BREAKER, CIRCUIT; TYPE: 5SJ5 1107/5SY5110-7, INTERRUPT CAPACITY: 10 A, POTENTIAL RATING: 220 VDC, RATED BREAKING CAPACITY: 10 KA, CONNECTION TYPE: SCREW, TEMPERATURE RATING: -40 TO +70 DEG C, MOUNTING METHOD: DIN 35 MM, POLE: SINGLE; STANDARD: IEC 60898-1, LA; CONNECTABLE CONDUCTOR SIZE: 0.75MM2 - 35MM2; TRIPPING CHARACTERISTICS: CURVE C/5-10 TIMES RATED; CURRENT INSTANTANEOUS TRIP; WIDTH: 18MM; HEIGHT: 90MM; MECHANICAL ENDURANCE: 20 000 CYCLES; ELECTRICAL ENDURANCE: 10 000 CYCLES; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/22E LV CUBICLE; INTERNAL USE: CRRC PART NUMBER: 80003301008773; MAINTENANCE MANUAL: MM0123-2	30
085840977	DEVICE; TYPE: 1 POLE LIGHTING PROTECTION, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E/22E; P/N: ZYSPD40K275B/3-FM, CRRC CORPORATION LIMITED	80
085841987	DEVICE; TYPE: LIGHTING PROTECTION F08, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21/22E; P/N: ZYSPD20K150C2, CRRC CORPORATION LIMITED	80
068826949	ASSEMBLY; TYPE: COOLING TOWER A; P/N: 3910000979, CSR CORPORATION LIMITED	5

068826950	ASSEMBLY; TYPE: COOLING TOWER B; P/N: 3910000980, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E	5
084819554	ASSEMBLY; TYPE: COMBINED COOLING TOWER NO 1; P/N: 3910000711, CRRC CORPORATION LIMITED; SPECIFICATION: LQT-015(A), LA; TYPE: COMBINED COOLING TOWER NO.1, (E41); APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E; MAINTENANCE MANUAL: MM0602 (REV 7.2)	3
084819555	ASSEMBLY; TYPE: COMBINED COOLING TOWER NO 2; P/N: 3910000712, CRRC CORPORATION LIMITED; SPECIFICATION: LQT-015(B), LA; TYPE: COMBINED COOLING TOWER NO.2 (E42); APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E; MAINTENANCE MANUAL: MM0602 (REV 7.2)	3
084835052	ASSEMBLY; TYPE: COOLING TOWER 2B, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: 6912001749, CSR CORPORATION LIMITED	3
084835053	ASSEMBLY; TYPE: COOLING TOWER 1A, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: 6912001748, CSR CORPORATION LIMITED	3
019842258	KIT; TYPE: CAB SIDE DOOR, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; SPECIFICATION: EL_NAT_SPEC_2001, LA; KIT RUBBER; CONSIST OF: 3M D-PROFILE SOFT SPONGE RUBBER X2 - 019860053, 1.8M LARGE P-RUBBER X1 - 019860054, 3.8M SOLID P-RUBBER STRIP X1 - 019860057, 3M 30X3MM SOFT SPONGE RUBBER	228
019842260	KIT; TYPE: RUBBER, MAINTENANCE DOOR, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E MACHINE ROOM; SPECIFICATION: EL_NAT_SPEC_2001, LA; RUBBER KIT; CONSIST OF: 3M D-PROFILE SOFT SPONGE RUBBER X2 - 019860053, 1.8M LARGE P-RUBBER X1 - 019860054, 4M SOLID P-RUBBER STRIP X1 - 019860057	228
019842261	KIT; TYPE: RUBBER, NO. 2 END DOOR, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E MACHINE ROOM; SPECIFICATION: EL_NAT_SPEC_2001, LA; RUBBER KIT; CONSIST OF: 3M D-PROFILE SOFT SPONGE RUBBER X2 - 019860053, 1.8M LARGE P-RUBBER X1 - 019860054, 4M SOLID P-RUBBER STRIP X1 - 019860057	228
084842238	KIT, REPAIR; TYPE: WINDOW SLIDING, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E DRIVER SIDE WINDOW; SPECIFICATION: EL_NAT_SPEC_2001, LA; MATERIAL: RUBBER; CONSIST OFF: SEAL STRIP1 6M (834156000080) - 084823243 SEAL STRIP2 6M (834156000090) - 084823244 SEAL STRIP3 3M (834156000100) - 084823246 NYLON SLIDING BLOCKS X4 (834156000120) - 084844407	228
084842239	KIT, REPAIR; TYPE: WINDOW DROP, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; MATERIAL: RUBBER; SPECIFICATION: EL_NAT_SPEC_2001/PDM_NAT_SPEC_032; CONSISTS OF: SEAL STRIP1 1.6M (834264400100) - 084823243 SEAL STRIP2 1.6M (834264200040) - 084823244 SLIDINGWINDOW STRIP 1.9M (834264200050) - 084823246	228
019863344	PAD;ISOL,RBR;22E PAD; TYPE: ISOLATION, MATERIAL: RUBBER; DRAWING NO: PEL99M_00404, LA; PAD, RUBBER; TYPE: ISOLATION; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E BOGIE - PRIMARY SUSPENSION; DRAWING: PEL99M_00404; MATERIAL: NATURAL RUBBER; THICKNESS UNDER 43.48KN LOAD = 3MM; THICKNESS UNDER NO LOAD: LESS THAN 4MM; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; INTERNAL USE: CRRC P/N: AB01020971; CRRC ASM DRAWING: AB01013332 (ITEM 21); MAINTENANCE MANUAL: MM0405;	3840

055829217	SHUNT; TYPE: ELECTRICAL, 400 MM ROOF CABLE; DRAWING NO: PEL99M_00106, LA; SPECIFICATION: BBH5561, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E ROOF; WIRE: 250MM ² TINNED SOFT COPPER STRANDED WIRE WITH 400MM LENGTH; CONNECTION: 37MM TINNED COPPER PIPE WITH 4.5MM WALL THICKNESS AND 75MM LENGTH, 2.5MM CHAMFER ON INSIDE EDGE; NOTE: DESTRUCTIVE FIRST ARTICLE INSPECTION TO CONFIRM PROPER CRIMP INTERNAL USE: CRRC P/N: AJA1016890; PANTO 2 ISOLATING SWITCH TO AC THROUGH BUSHING (AJA1011430 ITEM 46); AC THROUGH BUSHING TO BUSBAR (AJA1011430 ITEM 46)	720
061824491	SHUNT; TYPE: ELECTRICAL, 460 MM ROOF CABLE; DRAWING NO: PEL99M_00106, LA; SPECIFICATION: BBH5561, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E ROOF; WIRE: 250MM ² TINNED SOFT COPPER STRANDED WIRE WITH 460MM LENGTH; CONNECTION: 37MM TINNED COPPER PIPE WITH 4.5MM WALL THICKNESS AND 75MM LENGTH, 2.5MM CHAMFER ON INSIDE EDGE; NOTE: DESTRUCTIVE FIRST ARTICLE INSPECTION TO CONFIRM PROPER CRIMP INTERNAL USE: CRRC P/N: ZRAJA1008316; 20E/21E: ROOF 2 BUSBAR TO AC/DC SWITCH (ZRAJA1006504 ITEM 32); 22E: BUSBAR TO PANTO 2 ISOLATING SWITCH (AJA1011430 ITEM 25); BUSBAR TO AC/DC SWITCH (AJA1011430 ITEM 25); ROOF 2 BUSBAR TO ROOF 3 BUSBAR (AJA1005809 ITEM 5);	900
085819571	SHUNT; TYPE: ELECTRICAL, 515 MM, ROOF CABLE; DRAWING NO: PEL99M_00106, LA; SPECIFICATION: BBH5561, LA; WIRE: 250MM ² TINNED SOFT COPPER STRANDED WIRE WITH 515MM LENGTH; CONNECTION: 37MM TINNED COPPER PIPE WITH 4.5MM WALL THICKNESS AND 75MM LENGTH, 2.5MM CHAMFER ON INSIDE EDGE; NOTE: DESTRUCTIVE FIRST ARTICLE INSPECTION TO CONFIRM PROPER CRIMP INTERNAL USE: CRRC P/N: ZRAJA1006510; 20E/21E: BUSBAR TO PANTO 1 ISOLATING SWITCH (ZRAJA1006503 ITEM 2); BUSBAR TO PANTO 2 ISOLATING SWITCH (ZRAJA1006505 ITEM 26); DC ARRESTER TO DC THROUGH BUSHING (ZRAJA1006505 ITEM 11); AC SURGE ARRESTER TO AC THROUGH BUSHING (ZRAJA1006505 ITEM 42); 22E: DC ARRESTER TO DC THROUGH BUSHING (AJA1011430 ITEM 11); PANTO 1 ISOLATING SWITCH TO ROOF 2 BUSBAR (AJA1005809 ITEM 6); BUSBAR TO PANTO 1 ISOLATING SWITCH (AJA1013616 ITEM 2)	1350
085820764	STRAP; TYPE: EARTHING, 200 MM, 120F12/10; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; LENGTH HOLE-TO-HOLE: 200MM; TOLERANCE: -5MM TO +10MM; WIRE TYPE: FLEXIBLE ROPE; WIRE MATERIAL: TINNED COPPER; WIRE CROSS SECTIONAL AREA: 120MM ² ; LUG 1 TYPE: 120F10; LUG 2 TYPE: 120F12; LUG SPEC: RT_TE_SPC_0168; LUG DRAWING: RSE-BAH-1; APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/21E: AC AND DC SURGE ARRESTERS TO ROOF; APPLICATION ELECTRIC LOCOMOTIVE CLASS 22E: AC SURGE ARRESTER TO ROOF; INTERNAL USE (REFERENCE ONLY): CRRC P/N: ZRAJA1008307A; DRAWING: ZRAJA1006505A ITEM 35; DRAWING: AJA1011430 ITEM 35	360
085826615	STRAP; TYPE: BRAIDED, ELECTRICAL SHUNT; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E HIGH VOLTAGE CUBICLE; DRAWING: TFR RT-BLB_178, LA; LENGTH HOLE-TO-HOLE: 284MM; TOLERANCE: -5MM TO +5MM; WIRE: FLAT 95 X(4 X(83 X 0,05)) BRAIDED COPPER X 2; LUG: COPPER TUBE WITH 24,5 O.D. X 1,2 WALL THK. X 38MM; INTERNAL USE: AC EARTHING SWITCH STRAP; CRRC P/N: JQ00004223G00A; APPLICATION: JQ00007702G00A, IT 45; MAINTENANCE MANUAL: MM0140	110

085827819	SHUNT; TYPE: ELECTRICAL, 640 MM ROOF CABLE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E ROOF WIRE: 250MM^2 TINNED SOFT COPPER STRANDED WIRE WITH 640MM LENGTH; CONNECTION: 37MM TINNED COPPER PIPE WITH 4.5MM WALL THICKNESS AND 75MM LENGTH, 2.5MM CHAMFER ON INSIDE EDGE; SPECIFICATION: BBH5561; DRAWING: PEL99M_00106; NOTE: DESTRUCTIVE FIRST ARTICLE INSPECTION TO CONFIRM PROPER CRIMP INTERNAL USE: CRRC P/N: ZRAJA1006512; 20E/21E: PANTO 1 TO BUSBAR (ZRAJA1006503 ITEM 24 AND 27); PANTO 2 TO BUSBAR (ZRAJA1006505 ITEM 26); AC/DC SWITCH TO DC SURGE ARRESTER; 22E: PANTO 1 TO BUSBAR (AJA1013616 ITEM 24); PANTO 2 TO BUSBAR (AJA1011430 ITEM 26); AC/DC SWITCH TO DC SURGE ARRESTER (AJA1011430 ITEM 26)	720
085827820	SHUNT; TYPE: ELECTRICAL, 550 MM ROOF CABLE; DRAWING NO: PEL99M_00106, LA; SPECIFICATION: BBH5561, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E ROOF; WIRE: 250MM^2 TINNED SOFT COPPER STRANDED WIRE WITH 550MM LENGTH; CONNECTION: 37MM TINNED COPPER PIPE WITH 4.5MM WALL THICKNESS AND 75MM LENGTH, 2.5MM CHAMFER ON INSIDE EDGE; NOTE: DESTRUCTIVE FIRST ARTICLE INSPECTION TO CONFIRM PROPER CRIMP INTERNAL USE: CRRC P/N: ZRAJA1006773; 20E/21E: PANTO 2 TO BUSBAR (ZRAJA1006505 ITEM 2); 22E: PANTO 1 TO BUSBAR (AJA1013616 ITEM 22); BUSBAR TO PANTO 1 ISOLATING SWITCH (AJA1013616 ITEM 22); PANTO 2 TO BUSBAR (AJA1011430 ITEM 2);	1350
085837447	STRAP; TYPE: EARTH, 120F12; TYPE: 350 MM 120F12; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E; LENGTH HOLE-TO-HOLE: 350MM; TOLERANCE: -5MM TO +10MM; WIRE TYPE: FLEXIBLE; WIRE MATERIAL: TINNED COPPER; WIRE CROSS SECTIONAL AREA: 120MM2; LUG TYPE: 120F12; LUG HOLE SIZE: 12MM; LUG SPEC: RT_TE_SPC_0168; LUG DRAWING: RSE-BAH-1; APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/21E: G24 - BRAKE RESISTOR TO ROOF, G33 - COOLING TOWER TO BODY, G24 - COOLING TOWER TO ROOF, APPLICATION ELECTRIC LOCOMOTIVE CLASS 22E: G13 - BRAKE RESISTOR TO BODY, G30 - COOLING TOWER TO BODY, G31 - COOLING TOWER TO ROOF; INTERNAL USE (REFERENCE ONLY): CRRC P/N: JC00001416G00A; QTY P ER LOCO: 6	300
085837448	STRAP; TYPE: EARTHING; TYPE: 200MM 120F12; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; LENGTH HOLE-TO-HOLE: 200MM; TOLERANCE: -5MM TO +10MM; WIRE TYPE: FLEXIBLE; WIRE MATERIAL: TINNED COPPER; WIRE CROSS SECTIONAL AREA: 120MM2; LUG TYPE: 120F12; LUG HOLE SIZE: M12; LUG SPEC: RT_TE_SPC_0168; LUG DRAWING: RSE-BAH-1; APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/21E: ROOF 1 COVER TO CROSS BEAM 1, ROOF 2 COVER TO CROSS BEAM 1 <(>&<)> 2, ROOF 3 COVER TO CROSS BEAM 2, ROOF 3 COVER TO CROSS BEAM 3* (20E ONLY), ROOF 4 COVER TO CROSS BEAM 3; APPLICATION ELECTRIC LOCOMOTIVE CLASS 22E: ROOF 1 COVER TO CROSS BEAM 1, ROOF 2 COVER TO CROSS BEAM 1 <(>&<)> 2, ROOF 3 COVER TO CROSS BEAM 2 <(>&<)> 3, ROOF 4 COVER TO CROSS BEAM 3; INTERNAL USE (REFERENCE ONLY): CRRC P/N: AJA1006581A; CRRC P/N: AJA1006582A	300
085837450	STRAP; TYPE: EARTHING; TYPE: 300MM 120F12; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E; LENGTH HOLE-TO-HOLE: 300MM; TOLERANCE: -5MM TO +10MM; WIRE TYPE: FLEXIBLE; WIRE MATERIAL: TINNED COPPER; WIRE CROSS SECTIONAL AREA: 120MM2; LUG TYPE: 120F12; LUG HOLE SIZE: M12; LUG SPEC: RT_TE_SPC_0168; LUG DRAWING: RSE-BAH-1; APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/21E: G15 - PANTOGRAPH CARBON STRIP, G25 - PCC TO CAR BODY, ROOF 3 TO CROSS BEAM 3 (21E ONLY); APPLICATION ELECTRIC LOCOMOTIVE CLASS 22E: G27 - PANTOGRAPH CARBON STRIP, G32 - PCC TO CAR BODY; INTERNAL USE (REFERENCE ONLY): CRRC P/N: AJA1006697A; QTY PER LOCO: 4	300

085837451	STRAP; TYPE: EARTHING; TYPE: 250MM 120F12; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E; LENGTH HOLE-TO-HOLE: 250MM; TOLERANCE: -5MM TO +10MM; WIRE TYPE: FLEXIBLE; WIRE MATERIAL: TINNED COPPER; WIRE CROSS SECTIONAL AREA: 120MM2; LUG TYPE: 120F12; LUG HOLE SIZE: M12; LUG SPEC: RT_TE_SPC_0168; LUG DRAWING: RSE-BAH-1; APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/21E: G26 - PCC TO ROOF COVER; G27 - PCC TO ROOF COVER; APPLICATION ELECTRIC LOCOMOTIVE CLASS 22E: G33 - PCC TO ROOF COVER; G34 - PCC TO ROOF COVER; INTERNAL USE (REFERENCE ONLY): CRRC P/N: AJA1006698A; CRRC P/N: AJA1006699A	300
085837453	STRAP; TYPE: EARTHING; TYPE: 450MM 120F12; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E; LENGTH HOLE-TO-HOLE: 450MM; TOLERANCE: -5MM TO +10MM; WIRE TYPE: FLEXIBLE; WIRE MATERIAL: TINNED COPPER; WIRE CROSS SECTIONAL AREA: 120MM2; LUG TYPE: 120F12; LUG HOLE SIZE:12MM; LUG SPEC: RT_TE_SPC_0168; LUG DRAWING: RSE-BAH-1; APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/21E: G20 - SIGNAL CUBICLE TO BODY; G13 - LOW VOLTAGE CUBICLE TO BODY; G28 - HIGH VOLTAGE CUBICLE TO BODY; APPLICATION ELECTRIC LOCOMOTIVE CLASS 22E: G12 - SIGNAL CUBICLE TO BODY, G19 - LOW VOLTAGE CUBICLE TO BODY, G35 - HIGH VOLTAGE CUBICLE TO BODY; INTERNAL USE (REFERENCE ONLY): CRRC P/N: JA00001183G00A; QTY PER LOCO: 5	300
085837454	STRAP; TYPE: EARTHING; TYPE: 600MM 120F12; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; LENGTH HOLE-TO-HOLE: 600MM; TOLERANCE: -5MM TO +10MM; WIRE TYPE: FLEXIBLE; WIRE MATERIAL: TINNED COPPER; WIRE CROSS SECTIONAL AREA: 120MM2; LUG TYPE: 120F12; LUG HOLE SIZE: 12MM; LUG SPEC: RT_TE_SPC_0168; LUG DRAWING: RSE-BAH-1; APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/21E: G43/G40 - BOGIE TO BODY AND BOGIE TO MOTOR; INTERNAL USE (REFERENCE ONLY): CRRC P/N: A00002587G00A; 20E/21E DRAWING: ZRAJA1006553 IT 56; 22E DRAWING: AJA1013764 IT 39	300
085845744	STRAP; TYPE: ELECTRICAL SHUNT, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E HIGH VOLTAGE CUBICLE; TYPE: AC THROUGH BUSH TO VCB INTER CONNECTION; CABLE: BRAID, TINNED COPPER, ROUND, LENGTH: 480MM +/- 2MM, ELECTROPLATED TO BS 1872 BEFORE ASSEMBLY; LUG: TUBE, COPPER, OD: 20MM, WALL THK: 1.2MM, LENGTH: 40MM +/-2MM, COLD FORMED; TFR DRAWING NUMBER: RT-BLB-177; CRRC DRAWING NUMBER: AJE1002251A; REFERENCE: MM0140	110
055819736	PLUG, ELECTRICAL; TYPE: TRACTION MOTOR; P/N: EMP-SM-33-PC-R18-D150, AMPHENOL; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E TRACTION MOTOR; CABLE SIZE: 150MM2; SHELL: ALUMINIUM ALLOY; INSERT: THERMOPLASTICS; CONTACT: COPPER ALLOY / SILVER PLATED / CRIMP TYPE; CABLE GLAND: NICKEL PLATED BRASS; VIBRATIONS AND SHOCKS: CATEGORY 1, CLASS B (EN61373); OPERATING TEMPERATURE: -55°C TO 125°C; IP CLASS: IP67; DURABILITY: 500 CYCLES; INSULATION RESISTANCE: 5000 MEGA OHM MIN; CONTACT RESISTANCE: <(><<>>0.15 MILLI OHM; RATED VOLTAGE: 4000 V R.M.S; RATED CURRENT: 700A MAX; INTERNAL USE: CRRC P/N: 7700002908; CRRC DRAWING: AJE1001434 ITEM 39	10
085844183	PLUG, ELECTRICAL; TYPE: RECTANGULAR CONNECTOR X5; P/N: W70400006000, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: 0933 006 2601\\6 CORE, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 1; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	10
085844184	PLUG, ELECTRICAL; TYPE: RECTANGULAR CONNECTOR X1/X2/X3; P/N: W70400042000, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: 9160423001, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 3; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	10

085844189	PLUG; TYPE: CIRCULAR; P/N: W70100024100, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: XCB27T24KHP/24, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 3; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	10
085844158	CONNECTOR, ELECTRICAL; P/N: TE6921200100, CRRC CORPORATION LIMITED; DRAWING NO: TE6921200100, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 8 X 2; PRESSURE PLASTIC PART 1; AS PER MAINTENANCE MANUAL: MM0117 REV 8.5; =11-U01, =-U02 PCC; ELECTRIC LOCOMOTIVE CLASS 20E/21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	30
085844161	CONNECTOR, ELECTRICAL; P/N: TE6921200500, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: TE6921 200500, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 7X2; PRESSURE PLASTIC PART 3; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	30
085820366	HOT PLATE, ELECTRIC; POTENTIAL RATING: 230 V, POWER RATING: 1.5 KW; P/N: 3912000103, CSR CORPORATION LIMITED; SPECIFICATION: H0TP20E 0207A00299, 0; ELECTRIC LOCOMOTIVE CLASS 20E	40
085823333	TRANSFORMER; SYNCHRONOUS; ELECTRIC LOCOMOTIVE CLASS 20E; 22E; DRAWING NO: TBK1AE-00-00 CSR CORPORATION LIMITED REV LATEST; MAINTENANCE MANUAL: MM0117 REV 8.5	12
085826026	TRANSFORMER TYPE AUXILIARY P/N: 3384000093 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E TRANSFORMER CABINET ASSEMBLY DRAWING NO: AJA1012191A CSR CORPORATION LIMITED REV LATEST ITEM 35	5
085817958	TRANSFORMER, POWER TYPE HIGH VOLTAGE P/N: ZR3230000074 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 20E CN+EN	20
085823325	TRANSFORMER; ISOL, P/N: W200022658; TRANSFORMER; TYPE ISOLATION, ELECTRIC LOCOMOTIVE CLASS 20E; 22E; DRAWING NO: W200022658 CSR CORPORATION LIMITED REV LATEST	5
085834576	TRANSFORMER; TYPE: HIGH VOLTAGE; P/N: 3230000075, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E	20
013820414	HOSE ASSEMBLY; TYPE: WHEEL FLANGE LUBRICATION, LENGTH: 700 MM; SPECIFICATION: PD_L008_001_579, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20/21E/22E; HOSE: 441RH-5 CONNECTOR 1: KCA47-8-5C CONNECTOR 2: KCA47-8-5C INTERNAL USE: CRRC P/N: 1621000635, MM0409-1	1112
013820465	HOSE ASSEMBLY; TYPE: TEXTILE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E UNDERFRAME PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 208 RAIL; LENGTH: 650 MM; CONNECTOR 1: PN 08 AOL VA; CONNECTOR 2: PN 08 AOL VA; CRRC P/N: 1538000007; CRRC DRAWING: AJ P1002989, ITEM 170; CRRC DRAWING: AJP1007066, ITEM 113; CRRC SPEC: JP00000031J24; REFERENCE: MM0210	708
013820466	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E UNDERFRAME PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 220 RAIL; LENGTH: 700 MM; CONNECTOR 1: PN 20 AOL VA; CONNECTOR 2: PN 20 AOL VA; CRRC P/N: 1538000038; CRRC DRAWING: AJP1002989, ITEM 181; CRRC DRAWING: AJP1007066, ITEM 59; CRRC DRAWING: AJP1008640, ITEM 217; CRRC SPEC: JP00000031J24; REFERENCE: MM0210	1668
013820467	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E UNDERFRAME PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 220 RAIL; LENGTH: 860 MM; CONNECTOR 1: S/S M30 STRAIGHT NIPPLE - PN 20 AOL VA; CONNECTOR 2: S/S M30 STRAIGHT NIPPLE - PN 20 AOL VA; CRRC P/N: 1538000039; CRRC DRAWING: AJP1002989, ITEM 171; CRRC DRAWING: AJP1007066, ITEM 110; CRRC DRAWING: AJP1008640, ITEM 216; CRRC SPEC: JP00000031J24; REFERENCE: MM0210	1668

013820468	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E UNDERFRAME PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 216 RAIL; LENGTH: 500 MM; CONNECTOR 1: PN 16 AOL VA; CONNECTOR 2: PN 16 AOL VA; CRRC P/N: 1539010039; CRRC DRAWING: AJP1002989, ITEM 99; CRRC DRAWING: AJP1007066, ITEM 67; CRRC SPEC: JP00000031J24; REFERENCE: MM0210.	236
013820473	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E ROOF PIPELINE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E CONTROL PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 208 RAIL; LENGTH: 420 MM; CONNECTOR 1: PN 08 AOL VA; CONNECTOR 2: PN 08 AOL VA; CRRC P/N: 9999005426; CRRC DRAWING: AJP1003332, ITEM 39; CRRC DRAWING: AJP1008985, ITEM 36; CRRC SPEC: JP00000031J24; REFERENCE: MM0210.	1120
013820474	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E UNDERFRAME PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 208 RAIL; LENGTH: 450 MM; CONNECTOR 1: PN 08 AOL VA; CONNECTOR 2: PN 08 AOL 90 VA; CRRC P/N: 9999005464; CRRC DRAWING: AJP1002989, ITEM 185; CRRC DRAWING: AJP1007066, ITEM 62; CRRC DRAWING: AJP1008640, ITEM 219; CRRC SPEC: WP00000014J24; REFERENCE: MM0210.	6672
013825776	HOSE ASSEMBLY; TYPE: TE 208 RAIL, LENGTH: 620 MM; SPECIFICATION: PD_L008_001_579, LA; ELECTRIC LOCOMOTIVE CLASS 22E; CONNECTOR 1: S/S M16 STRAIGHT NIPPLE - PN 08 AOL VA CONNECTOR 2: S/S M16 90 DEGREE NIPPLE - PN 08 AOL 90 VA INTERNAL USE: CRRC P/N: 1535000085, MM0411	640
013825777	HOSE ASSEMBLY; TYPE: TE 216 RAIL, LENGTH: 720 MM; SPECIFICATION: PD_L008_001_579, LA; ELECTRIC LOCOMOTIVE CLASS 22E; CONNECTOR 1: S/S M26 STRAIGHT NIPPLE - PN 16 AOL VA CONNECTOR 2: S/S M26 90 DEGREE NIPPLE - PN 16 AOL 90 VA INTERNAL USE: CRRC P/N: 1535000470, MM0411	1920
013826353	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E MACHINE ROOM PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 225 RAIL; LENGTH: 280 MM; CONNECTOR 1: S/S M36 STRAIGHT NIPPLE - PN 25 AOL VA; CONNECTOR 2: S/S M36 STRAIGHT NIPPLE - PN 25 AOL VA; DESIGNATION: COMPRESSOR CONNECTION A10; CRRC P/N: 1539010047; REFERENCE: MM0227	160
013826574	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E CONTROL <(>&<)> UNDERFRAME PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 208 RAIL; LENGTH: 450 MM; CONNECTOR 1: PN 08 AOL VA; CONNECTOR 2: PN 08 AOL VA; CRRC P/N: 1538000023; CRRC DRAWING: AJP1008985, ITEM 58; CRRC DRAWING: AJP1008640, ITEM 242; CRRC SPEC: JP00000031J24; REFERENCE: MM 0210	320
013826575	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E CONTROL PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 210 RAIL; LENGTH: 450 MM; CONNECTOR 1: PN 10 AOL VA; CONNECTOR 2: PN 10 AOL VA; CRRC P/N: 1539010021; CRRC DRAWING: AJP1008985, ITEM 29; CRRC SPEC: JP00000031J24; REFERENCE: MM0210	160
013826576	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E CONTROL PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 210 RAIL; LENGTH: 400 MM; CONNECTOR 1: PN 10 AOL VA; CONNECTOR 2: PN 10 AOL VA; CRRC P/N: 9999005427; CRRC DRAWING: AJP1008985, ITEM 31; CRRC SPEC: JP00000031J24; REFERENCE: MM0210	160
013826577	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E CONTROL PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 210 RAIL; LENGTH: 550 MM; CONNECTOR 1: PN 10 AOL VA; CONNECTOR 2: PN 10 AOL VA; CRRC P/N: 9999005432; CRRC DRAWING: AJP1008985, ITEM 67; CRRC SPEC: JP00000031J24; REFERENCE: MM0210	160

013826578	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E CONTROL PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 210 RAIL; LENGTH: 650 MM; CONNECTOR 1: PN 10 AOL VA; CONNECTOR 2: PN 10 AOL VA; CRRC P/N: 9999005433; CRRC DRAWING: AJP1008985, ITEM 50; CRRC SPEC: JP00000031J24; REFERENCE: MM0210	320
013837556	HOSE; TYPE: INSULATING; TYPE: THERMOPLASTIC; APPLICATION: ELECTRIC LOCOMOTIVE CALSS 20E/21E/22E; PANTOGRAPH; LENGTH: 1.25M +/- 50MM; UV RESISTANT; ELECTRICALLY ISOLATED; MEDIUM: COMPRESSED AIR; OPERATING PRESURE: > 1.5MPA / 15BAR; OPERATING TEMPERATURE: < -10C AND > 80C; HOSE MATERIAL: THERMOPLASTIC (NYLON/PTFE/PA/PU); PGF-1220; HOSE OUTER DIAMETER: 12MM; HOSE INNER DIAMETER: 10MM; FITTING 1 TYPE: METRIC FEMALE SWIVEL 24° WITH O-RING; FITTING 1 MATERIAL: STAINLESS STEEL; FITTING 1 THREAD: M16 X 1.5; FITTING 2 TYPE: METRIC FEMALE SWIVEL 24° WITH O-RING; FITTING 2 MATERIAL: STAINLESS STEEL; FITTING 2 THREAD: M16 X 1.5; INTERNAL USE:CRRC P/N: 80001621000608; MAINTENANCE MANUAL: MM0101	80
013843893	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E UNDERFRAME PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 220 RAIL; LENGTH: 560 MM; CONNECTOR 1: S/S M30 STRAIGHT NIPPLE - PN 20 AOL VA; CONNECTOR 2: S/S M30 STRAIGHT NIPPLE - PN 20 AOL VA; CRRC P/N: 6930001879; CRRC DRAWING: AJP1008640, ITEM 243; CRRC SPEC: JP00000031J24; REFERENCE: MM0210	320
013859483	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E CONTROL PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 213 RAIL; LENGTH: 700 MM; CONNECTOR 1: PN 13 AOL VA; CONNECTOR 2: PN 13 AOL VA; CRRC P/N: 1539000080; CRRC DRAWING: AJP1009212, ITEM 28; CRRC SPEC: WP00000014J24; REFERENCE: MM0210	160
013859484	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE, LENGTH: 630 MM; SPECIFICATION: PD_L008_001_579, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E MACHINE ROOM PIPELINE; HOSE: TE 225 RAIL; LENGTH: 630MM CONNECTOR 1: S/S M36 STRAIGHT NIPPLE - PN 25 AOL VA; CONNECTOR 2: S/S M36 STRAIGHT NIPPLE - PN 25 AOL VA; CRRC P/N: 1539000091; CRRC DRAWING: AJP1009325, ITEM 30; CRRC SPEC: WP00000014J24; REFERENCE: MM0210	160
068823167	HOSE ASSEMBLY; TYPE: WHEEL FLANGE LUBRICATION, LENGTH: 1200 MM; SPECIFICATION: PD_L008_001_579, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20/21E/22E; HOSE: 441RH-5 CONNECTOR 1: KCA47-8-5C CONNECTOR 2: KCA47-8-5C INTERNAL USE: CRRC P/N: 1621000636, MM0409-1	30
068823168	HOSE ASSEMBLY; TYPE: WHEEL FLANGE LUBRICATION, LENGTH: 300 MM; SPECIFICATION: PD_L008_001_579, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20/21E/22E; HOSE: 441RH-5 CONNECTOR 1: KCA47-8-5C CONNECTOR 2: KCA47-8-5C INTERNAL USE: CRRC P/N: 1621000634, MM0409-1	1112
068858563	HOSE ASSEMBLY; TYPE: WHEEL FLANGE LUBRICATION, LENGTH: 620 MM; SPECIFICATION: PD_L008_001_579, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E; HOSE: 441RH-5 CONNECTOR 1: KCA47-8-5C CONNECTOR 2: KCF47-8-5C INTERNAL USE: CRRC P/N: 1539000071/1539000072, MM0409-2	1280
071817866	HOSE ASSEMBLY; TYPE: TE 216 RAIL, LENGTH: 650 MM; SPECIFICATION: PD_L008_001_579, LA; ELECTRIC LOCOMOTIVE CLASS 20/21E; CONNECTOR 1: S/S M26 STRAIGHT NIPPLE - PN 16 AOL VA CONNECTOR 2: S/S M26 90 DEGREE NIPPLE - PN 16 AOL 90 VA INTERNAL USE: CRRC P/N: 1538000026, MM0411, WP00000014J24	472
071817867	HOSE ASSEMBLY; TYPE: TE 216 RAIL, LENGTH: 530 MM; SPECIFICATION: PD_L008_001_579, LA; ELECTRIC LOCOMOTIVE CLASS 20/21E CONNECTOR 1: S/S M26 STRAIGHT NIPPLE - PN 16 AOL VA CONNECTOR 2: S/S M26 90 DEGREE NIPPLE - PN 16 AOL 90 VA INTERNAL USE: CRRC P/N: 1538000027, MM0411, WP00000014J24	472

071817868	HOSE ASSEMBLY; TYPE: TE 208 RAIL, LENGTH: 500 MM; SPECIFICATION: PD_L008_001_579, LA; ELECTRIC LOCOMOTIVE CLASS 20/21E; HOSE: TE 208 RAIL CONNECTOR 1: S/S M16 STRAIGHT NIPPLE - PN 08 AOL VA CONNECTOR 2: S/S M16 90 DEGREE NIPPLE - PN 08 AOL 90 VA INTERNAL USE: CRRC P/N: 1539010043, MM0411, WP00000014J24	472
084842331	HOSE ASSEMBLY; TYPE: TEXTILE; TYPE: HANSA-FLEX TEXTILE HOSE; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E UNDERFRAME PIPELINE; SPECIFICATION: PD_L008_001_579, LA; HOSE: TE 208 RAIL; LENGTH: 600 MM; CONNECTOR 1: PN 08 AOL VA; CONNECTOR 2: PN 08 AOL VA; CRRC P/N: 6930008221; CRRC DRAWING: AJP1008640, ITEM 218; CRRC SPEC: WP00000014J24; REFERENCE: MM0210	800
085843752	HOSE; TYPE: SANDING; P/N: AJP1005629A, CRRC CORPORATION LIMITED; DRAWING NO: AJP1005629, 0; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E	180
084832370	CONNECTOR FOR HEAT EXCHANGER; ELECTRICAL LOCOMOTIVE CLASS 22E	50
085844178	MODULE; TYPE: QUICK CONNECTOR BLOCK IGBT; P/N: W200000085, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: N01047409, LA, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	50
085844179	FITTING; TYPE: MODULE SIDE; P/N: W200000084, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: N01 120509, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 2; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	50
085844180	FITTING; TYPE: IGBT MODULES; P/N: W200000086, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: N00884008, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 10; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	50
085823319	TRANSDUCER TYPE VOLTAGE APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/22E DRAWING NO: W22510700052 CSR CORPORATION LIMITED REV LATEST	16
085823321	TRANSDUCER TYPE CURRENT APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/22E DRAWING NO: W22510702134 CSR CORPORATION LIMITED REV LATEST	10
085823322	TRANSDUCER;PRESS,ELEC LOCO CL 20E/22E, TRANSDUCER; TYPE PRESSURE; APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/22E; DRAWING NO: W200000943 CSR CORPORATION LIMITED REV LATEST	10
085823323	TRANSDUCER TYPE TEMPERATURE APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/22E DRAWING NO: W22510700102G CSR CORPORATION LIMITED REV LATEST	20
085829030	TRANSDUCER TYPE VOLTAGE APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/22E P/N: ZSN180-00-00-A07 CSR CORPORATION LIMITED DRAWING NO: ZSN180-00-00-A07 REV LATEST	20
084837529	LOCK, MORTISE; P/N: NS90009-00-000, SIYAHAMBA ENGINEERING; ELECTRIC LOCOMOTIVE CLASS 21E; COMPLETE NPNA	70
067831183	LOCK, RIM TYPE DOOR, RIGHT HAND MATERIAL STEEL P/N: NS90009-00 SIYAHAMBA ELECTRIC LOCOMOTIVE CLASS 20E DOOR LOCK; FOR LEFT HAND DOOR LOCK SEE ITEM 067831325	10
067831325	LOCK, RIM TYPE DOOR, LEFT HAND MATERIAL STEEL P/N: NS90009-06 SIYAHAMBA ELECTRIC LOCOMOTIVE CLASS 20E DOOR LOCK LEFT HAND; FOR RIGHT HAND DOOR LOCK SEE ITEM 067831183	10
084842700	KIT; TYPE: DOOR WINDOW, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E; MAINTENANCE MANUAL: MM0307; CONSIST OFF; PART NUMBERS: 8000069 1000076; 80000691000071; 80000691000074; 80000691000075; 800006912001398; SIYAHAMBA ENGINEERING (PTY) LTD	228

084853667	GUARD; TYPE: STONE, LEFT, 80000961000084, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: 80000961000084, SIYAHAMBA	8
085834114	CABLE ASSEMBLY; TYPE: WTB JUMPER; SPECIFICATION: EL_NAT_SPEC_2010, LA; ASSEMBLY, CABLE; TYPE: WTB JUMPER; APPLICATION: ELECTRICAL LOCOMOTIVE CLASS 22E MU CONNECTION; SPECIFICATION: EL_NAT_SPEC_2010; CONNECTOR SHELL MATERIAL: METAL; INCLUDED WITH CABLE ASSEMBLY: MATING CONNECTOR FOR WTB COMMUNICATION CABLE, MATING CONNECTOR FOR SIGNAL WIRES, LANYARDS, WIRING DIAGRAM; INTERNAL USE: CRRC P/N : 3423001009; CRRC DRAWING: AJA1012588A ITEM 45; MAINTENANCE MANUAL: MM0135-1;	175
085834115	SOCKET, ELECTRICAL; TYPE: WTB JUMPER; SPECIFICATION: EL_NAT_SPEC_2010, LA; SOCKET, ELECTRICAL; TYPE: WTB JUMPER; APPLICATION: ELECTRICAL LOCOMOTIVE CLASS 22E MU CONNECTION; SPECIFICATION: EL_NAT_SPEC_2010; INCLUDED WITH RECEPTACLE: MATING CONNECTOR FOR WTB COMMUNICATION CABLE, MATING CONNECTOR FOR SIGNAL WIRES, WIRING DIAGRAM; INTERNAL USE: CRRC P/N: 7700004184; CRRC DRAWING: AJA1012588A ITEM 16; MAINTENANCE MANUAL: MM0135-1;	40
085834116	SOCKET; TYPE: BLIND, WTB DUMMY; SPECIFICATION: EL_NAT_SPEC_2010, LA; SOCKET, BLIND; TYPE: WTB DUMMY; APPLICATION: ELECTRICAL LOCOMOTIVE CLASS 22E MU CONNECTION; EMPTY RECEPTACLE; SPECIFICATION: EL_NAT_SPEC_2010; INTERNAL USE: CRRC P/N: 7700004183; CRRC DRAWING: AJA1012588A ITEM 7; MAINTENANCE MANUAL: MM0135-1;	26
084672157	PUMP ASSEMBLY; TYPE: WATER, 2.7 KW, APPLICATION: COOLING TOWER; P/N: 6912001790, CRRC CORPORATION LIMITED; SPECIFICATION: 6912001790, LA; P/N: 835010030000 (ZHUZHOU LIANCHENG); TYPE: CNE32-160/N24L-2 (HERMETIC PUMP CO. LTD) F20-3211H4-0305S1-BV (DALIAN EMPIRE CANNED PUMP) APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E /21E	20
084839088	PUMP ASSEMBLY; TYPE: WATER, 5.5 KW, APPLICATION: COOLING TOWER; P/N: 3098000656, CRRC CORPORATION LIMITED; P/N: 835161080000 (ZHUZHOU LIANCHENG); TYPE: CNE32-160/N24L-2 (HERMETIC PUMP CO. LTD) F20-3211H4-0305SZ1-BV (DALIAN EMPIRE CANNED PUMP); APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E	20
085823302	PUMP; TYPE: OIL TRANSFORMER; SPECIFICATION: B2V/131K / DN80, LA; ELECTRIC LOCOMOTIVE CLASS 20/22E	15
019842257	KIT; TYPE: RUBBER, NO.1 END DOOR, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E CAB; SPECIFICATION: EL_NAT_SPEC_2001, LA; CONSIST OF: 3.2M D-PROFILE SOFT SPONGE RUBBER X1 - 019860053, 4.8M D-PROFILE SOFT SPONGE RUBBER X1 - 019860053, 1.8M LARGE P-RUBBER X1- 019860054	228

019842262	KIT; TYPE: RUBBER, PARTITION DOOR 2, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E MACHINE ROOM; SPECIFICATION: EL_NAT_SPEC_2001, LA; RUBBER KIT; CONSIST OF: 2.7M 15X12 SOFT SPONGE RUBBER X2 - 019860027, 1.8M LARGE P-RUBBER X1 - 019860054	228
069831806	SEAL, RING; TYPE: NON DRIVE END, 20E AND 22E; P/N: AB01007570G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0622, LA; ELECTRIC LOCOMOTIVE CLASS 20E AND 22E	50
069831809	SEAL, RING; TYPE: DRIVE END, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E AND 22E; P/N: AB01007589G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0625, LA	50
069831818	SEAL, RING; TYPE: NON DRIVE END, 21E, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: AB01007579G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0576, LA	50
069831821	SEAL, RING; TYPE: DRIVE END, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: AB01007590G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0578, LA	50
084843022	WEATHER STRIP; TYPE: TRACTION FAN INTAKE, APPLICATION: ELECTRICAL LOCOMOTIVE CLASS 20E/21E, DIMENSIONS: WD 10 X LG 4004 + 4 X HT 28 MM; MATERIAL SPEC: PD_PEL_SPEC_069; P/N. NF-28X10; MAINTENANCE MANUAL: MM0605	590
084843057	WEATHER STRIP; TYPE: MACHINE ROOM INTAKE FILTER, APPLICATION: ELECTRICAL LOCOMOTIVE CLASS 20E/21E, DIMENSIONS: WD 10 X LG 4660 + 4 X HT 28 MM; MATERIAL SPEC: PD_PEL_SPEC_069; P/N.NF-28X10X4460 MAINTENANCE MANUAL: MM0605	590
019842259	KIT; TYPE: RUBBER, PARTITION DOOR 1, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E CAB; CONSIST OF: 2.7M 15X12 SOFT SPONGE RUBBER X2 - 019860027, 1.8M LARGE P-RUBBER X1 - 019860054	228
019847442	GASKET, PRE CUT; TYPE: WATER PUMP COOLING TOWER, DIMENSIONS: ID 163 X OD 176 X THK 0.5 MM, MATERIAL: RUBBER, SHAPE: ROUND; USED ON ELECTRIC LOCOMOTIVE CLASS 20E	834
069831808	O RING; INSIDE DIAMETER: 387 MM, SPECIAL FEATURES: 20E/22E; SPECIFICATION: DIN 3771 FKM 80SHORE A, LA; OUTSIDE DIAMETER: 401 MM, THICKNESS: 7 MM; USED ON ELECTRIC LOCOMOTIVE CLASS 20E AND 22E U TUBE	50
069831820	O RING; INSIDE DIAMETER: 412 MM; SPECIFICATION: DIN 3771 FKM 80SHORE A, LA; OD 426MM, THICKNESS 7MM; USED ON ELECTRIC LOCOMOTIVE CLASS 21E U-TUBE	50
084847345	RUBBER STRIP; TYPE: CIRCULAR SECTION, MATERIAL: FOAM RUBBER, COLOR: BLACK, SPECIAL FEATURES: BLOWER, TRACTION MOTOR, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E; P/N: 800016530380, CSR CORPORATION LIMITED	576
067823214	BLOWER, ENGINE COOLING SYSTEM TRACTION; ELECTRIC LOCOMOTIVE CLASS 20E/21E SPECIFICATION: TLTF7.0 DRAWING NO: 3910000713 CSR CORPORATION LIMITED REV LATEST	8
084831776	UNIT TYPE COOLING TOWER 1, BLOWER APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E P/N: 6912001791 CSR CORPORATION LIMITED	15
084835046	FILTER, ELEMENT; TYPE: PRESSURE BLOWER; P/N: 1730000204, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E	10
085819652	FAN, ELECTRIC BLOWER, ENGINE COOLING SYSTEM MACHINERY ROOM SPECIFICATION: TZTF4.8B P/N: 3910000710 CSR CORPORATION LIMITED MAINTENANCE MANUAL: MM0604 REV4.2 ELECTRIC LOCOMOTIVE CLASS 20E/21E	10
085823326	FAN, COOLING; TYPE: CENTRIFUGAL; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E PCC; MANUFACTURER: ZIEHL-ABEGG; PART NUMBER: 131630 - RG28M-2DK.3F.1R; OPERATING VOLTAGE: 3PH 230/400V (D/Y) 50HZ; OPERATING CURRENT: 1,65/0,95A (D/Y); SPEED: 2750rpm; POWER: 0,53kW; INTERNAL USE: CRRC P/N: W200023158; MAINTENANCE MANUAL: MM0111	30
085823326R	REPAIR, UNIT; TYPE: FAN ELECTRIC, LOCATION: ELECTRIC LOCOMOTIVE CLASS 22E	556
085826027	FAN, ELECTRIC; DRAWING NO: AJA1012191A, ITEM: 40, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E AUXILIARY TRANSFORMER CABINET ASSEMBLY	11

085826909	FAN TYPE TRACTION P/N: 3910000944 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E FAN INSTALLATION DRAWING NO: 3910000944 REV LATEST, AJA1013516A CSR CORPORATION LIMITED REV LATEST ITEM 1	10
085844087	FAN, ELECTRIC; P/N: 3351024, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E	20
085855143	MOTOR, ELECTRIC; TYPE: AUXILIARY VENTILATION CABINET; INTERNAL REFERENCE 80003910000978; SPECIFICATION/FAN MODEL: TZTF5.2; ELECTRIC LOCOMOTIVE CLASS 22E	4
071817800	SHIM; TYPE: BONDED RUBBER, AXLE BOX ISOLATION; DRAWING NO: BBH7133, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E PRIMARY SUSPENSION; SPECIFICATION: BBH 7010; CONSTRUCTION: TWO ROUND METAL PARTS, RUBBER BONDED TOGETHER TO CREATE ELECTRICAL ISOLATION; OUTER DIAMETER: 288MM +/- 1MM; HEIGHT: 58MM; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; INTERNAL USE: CRRC P/N: AB01006825; CRRC DRAWING: AB01007997A ITEM 5; MAINTENANCE MANUAL: MM0405	848
071817815	SHIM; TYPE: BONDED RUBBER, BOGIE ISOLATION; DRAWING NO: BBH6018, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E SECONDARY SUSPENSION; SPECIFICATION: BBH 7010; CONSTRUCTION: TWO ROUND METAL PARTS, RUBBER BONDED TOGETHER TO CREATE ELECTRICAL ISOLATION; OUTER DIAMETER: 280MM +/- 1MM; HEIGHT: 60MM; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; INTERNAL USE: CRRC P/N: AB01007194; CRRC DRAWING: AB01008381A ITEM 1; MAINTENANCE MANUAL: MM0406.	424
071864558	SHIM; TYPE: BONDED RUBBER, AXLE BOX ISOLATION; DRAWING NO: BBH6848, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E PRIMARY SUSPENSION; SPECIFICATION: BBH 7010; CONSTRUCTION: TWO ROUND METAL PARTS, RUBBER BONDED TOGETHER TO CREATE ELECTRICAL ISOLATION; OUTER DIAMETER: 289MM +/- 1MM; HEIGHT: 49MM; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; INTERNAL USE: CRRC P/N: AB01012095; MAINTENANCE MANUAL: MM0405.	1040
071864559	SHIM; TYPE: BONDED RUBBER, BOGIE ISOLATION; DRAWING NO: BBH5998, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E SECONDARY SUSPENSION; SPECIFICATION: BBH 7010; CONSTRUCTION: TWO ROUND METAL PARTS, RUBBER BONDED TOGETHER TO CREATE ELECTRICAL ISOLATION; OUTER DIAMETER: 298MM +/- 1MM; HEIGHT: 65MM; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; INTERNAL USE: CRRC P/N: AB01012098; MAINTENANCE MANUAL: MM0406	520
013838811	PIPE ASSEMBLY; TYPE: OIL INLET, APPLICATION: TRANSFORMER; P/N: 3098000546, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E	20
013838813	PIPE ASSEMBLY; TYPE: OUTLET, APPLICATION: TRANSFORMER; P/N: 3098000502, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E	20
013838814	PIPE ASSEMBLY; TYPE: OUTLET, APPLICATION: TRANSFORMER; P/N: 3098000545, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E	20
061825851	WIRE, ELECTRICAL; P/N: 3451000201, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E JUNCTION BOX BOGIE WIRING	16
061825852	WIRE, ELECTRICAL; P/N: 3451000202, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E JUNCTION BOX BOGIE WIRING	16
061825853	WIRE, ELECTRICAL; P/N: 3451000203, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E JUNCTION BOX BOGIE WIRING	16
061825854	WIRE, ELECTRICAL; P/N: 3451000204, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E JUNCTION BOX BOGIE WIRING	16
071817856	WIRE, ELECTRICAL; DRAWING NO: 3451000145, LA; JUNCTION BOX; ELECTRIC LOCOMOTIVE CLASS 20E; MM0414 - BOGIE AXLE TEMPERATURE ALARM SY STEM FIGURE 5.3 PAGE 19L LG 3.7 M; QTY 1	16
085821345	WIRE, ELECTRICAL; TYPE: JUNCTION BOX; P/N: 3451000157, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 20E	16
085839392	BOX; TYPE: WIPER POWER SUPPLY CONTROL; P/N: 834212107000, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E	10

085841887	MOTOR, WINDSHIELD WIPER, ELECTRIC; P/N: 792411400000, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E/22E; FRONT WINDSCREEN	26
085817608	PANEL, CONTROL; P/N: ZR6912001420, CSR CORPORATION LIMITED; WINDOW WIPER; 20E/22E CAB CN+EN; MM0502	20
084823191	ARM WINDSHIELD WIPER; LG 550 MM ARM, WINDSHIELD WIPER ARM SIZE LG 550 MM ELECTRIC LOCOMOTIVE CLASS 20E/22E SPECIFICATION: SA95NEL-550-WIPERARM DRAWING NO: 6960001054 CSR CORPORATION LIMITED REV LATEST	80
084823192	ARM WINDSHIELD WIPER; LG 680 MM ARM, WINDSHIELD WIPER ARM SIZE LG 680 MM ELECTRIC LOCOMOTIVE CLASS 20E/22E SPECIFICATION: SA95NEL-680-WIPERARM DRAWING NO: 6960001055 CSR CORPORATION LIMITED REV LATEST	80
010815052	PLATE, IDENTIFICATION; TYPE: MECHANICAL NUMBER, LEGEND TYPE: ARIAL, DIMENSIONS: WD 42 X LG 82 X THK 0.5 MM, MATERIAL: ALUMINIUM, CO LOR: SILVER	556
068848029	PLATE, IDENTIFICATION; TYPE: LOCOMOTIVE DATA, LEGEND TYPE: ENGRAVE OR LASER MARKED, DIMENSIONS: WD 90 X LG 200 X THK 1 MM, MATERIAL: 3CR12 OR ALUMINIUM, COLOR: SILVER; DRAWING NO: TWK29546, LA; USE ON ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E	50
084825914	RACK P/N: AJA1007087A CSR CORPORATION LIMITED DOOR PLATE LOCK ASSEMBLY; ELECTRIC LOCOMOTIVE CLASS 22E HIGH VOLTAGE CUBICLE ASSEMBLY DRAWING NO: AJA1011075A CSR CORPORATION LIMITED REV LATEST ITEM 3	40
084840362	PLATE; TYPE: BOGIE BEARER SECONDARY SUSPENSION, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E, MATERIAL: MOULDED RUBBER AND STEEL; DRAWING NO: BBH6847, LA; SPECIFICATION: BBH7010, LA; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; FAI: SAMPLE WITH SUPPLIER'S TEST RESULTS SHALL BE SENT TO PRODUCT DEVELOPMENT TO VERIFY RESULTS WITH TFR VIT AT THE DYNAMIC TEST FACILITY. INTERNAL USE: CRRC P/N: AB01012833; CRRC ASM DRAWING: AB01012963A ITEM 6; MAINTENANCE MANUAL: MM0406	1280
084843637	PLATE, MOUNTING; TYPE: PANTOGRAPH CONTROL VALVE, PLATE MATERIAL: STEEL, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E, SPECIAL FEATURE S: DESIGN TYPE NPNA-21E; P/N: JQ00001538G00, CRRC CORPORATION LIMITED	35
085826956	PLATE; TYPE: AIR VALVE; DRAWING NO: JQ00009076G00A, ITEM: 13, CSR CORPORATION LIMITED; DOUBLE-CURRENT SYSTEM, ELECTRIC LOCOMOTIVE CLASS 22E; TSG15H(02) PANTOGRAPH	20
084840867	ASSEMBLY; TYPE: MIRROR ARM, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; DRAWING NO: PD L007_001_C10, LA; ARM AND BRACKET TO BE POWDER COATED COLOUR: BLACK; MIRROR ARM: 693 MM X 199 MM WITH 19 MM OUTSIDE DIAMETER; TO BE PACKAGED AS A KIT INCLUDING THE FASTENERS AS PER DRAWING; PRODUCT TO BE PACKED IN PROPER WAY TO PREVENT DAMAGED OR TAMPERING	712
011827654	ROD TYPE CONNECTING ELECTRIC LOCOMOTIVE CLASS 22E BAR ASSEMBLY DRAWING NO: AB01013566A REV LATEST ITEM 1, AB01013568A REV LATEST	15
084827493	ROD TYPE PULL ASSEMBLY 1 P/N: AB01013337A CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E AXLE BOX PRIMARY SUSPENSION DEVICE DRAWING NO: AB01013332A REV LATEST ITEM 5, AB01013337A REV LATEST	1920
084827494	ROD TYPE PULL ASSEMBLY 2 P/N: AB01013338A CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E AXLE BOX PRIMARY SUSPENSION DEVICE DRAWING NO: AB01013332A REV LATEST ITEM 1, AB01013338A REV LATEST	1920

085820367	SOCKET; TYPE: 220V, 4X2, 16A VERTICAL SWITCH, DIMENSIONS: WD 50 X HT 100 MM, MATERIAL: POLYVINYL CHLORIDE; 4X2 VERTICAL SWITCH AND COVER; COLOUR: WHITE; AMPERAGE: 16A SINGLE SABS SPEC: SANS 10142 PRODUCT TO BE PACKED IN PROPER WAY TO PREVENT DAMAGED OR TAMPERING ELECTRIC LOCOMOTIVE CLASS 20/21/22E	80
071817881	JOINT; TYPE: TRACTION BAR, MATERIAL: RUBBER; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E TRACTION DEVICE; MATERIAL: MOLDED RUBBER AND STEEL; DRAWING: BBH6340; SPECIFICATION: BBH7010; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; FAI: SAMPLE WITH SUPPLIER'S TEST RESULTS SHALL BE SENT TO PRODUCT DEVELOPMENT TO VERIFY RESULTS WITH TFR VIT AT THE DYNAMIC TEST FACILITY. INTERNAL USE: CRRC P/N: AB01007569/AB01012090; CRRC ASM DRAWING: AB01008302A ITEM 50; MAINTENANCE MANUAL: MM0408	236
071817882	JOINT; TYPE: TRACTION BAR, MATERIAL: RUBBER; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E TRACTION DEVICE; MATERIAL: MOLDED RUBBER AND STEEL; DRAWING: BBH7095; SPECIFICATION: BBH7010; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; FAI: SAMPLE WITH SUPPLIER'S TEST RESULTS SHALL BE SENT TO PRODUCT DEVELOPMENT TO VERIFY RESULTS WITH TFR VIT AT THE DYNAMIC TEST FACILITY. INTERNAL USE: CRRC P/N: AB01007929/AB01012091; CRRC ASM DRAWING: AB01008302A ITEM 40; MAINTENANCE MANUAL: MM0408	236
071817888	JOINT; TYPE: MOTOR-BOOM, MATERIAL: RUBBER; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E MOTOR SUSPENSION; MATERIAL: MOLDED RUBBER AND STEEL; DRAWING: BBH6354; SPECIFICATION: BBH7010; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; FAI: SAMPLE WITH SUPPLIER'S TEST RESULTS SHALL BE SENT TO PRODUCT DEVELOPMENT TO VERIFY RESULTS WITH TFR VIT AT THE DYNAMIC TEST FACILITY. INTERNAL USE: CRRC P/N: JB00000460; CRRC ASM DRAWING: JB00000330 ITEM 2; MAINTENANCE MANUAL: MM0407	472
071817931	JOINT; TYPE: TIE-BAR-LARGE, MATERIAL: RUBBER; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E PRIMARY SUSPENSION; MATERIAL: MOLDED RUBBER AND STEEL; DRAWING: BBH5293; SPECIFICATION: BBH7010; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; FAI: SAMPLE WITH SUPPLIER'S TEST RESULTS SHALL BE SENT TO PRODUCT DEVELOPMENT TO VERIFY RESULTS WITH TFR VIT AT THE DYNAMIC TEST FACILITY. INTERNAL USE: CRRC P/N: AB01006821; CRRC ASM DRAWING: AB01006823A ITEM 2; MAINTENANCE MANUAL: MM0405	944
071817932	JOINT; TYPE: TIE-BAR-SMALL, MATERIAL: RUBBER; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E PRIMARY SUSPENSION; MATERIAL: MOLDED RUBBER AND STEEL; DRAWING: BBH6345; SPECIFICATION: BBH7010; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; FAI: SAMPLE WITH SUPPLIER'S TEST RESULTS SHALL BE SENT TO PRODUCT DEVELOPMENT TO VERIFY RESULTS WITH TFR VIT AT THE DYNAMIC TEST FACILITY. INTERNAL USE: CRRC P/N: AB01006822; CRRC ASM DRAWING: AB01006823A ITEM 12; MAINTENANCE MANUAL: MM0405	1888
084865868	CAP; TYPE: DUSTPROOF, MATERIAL: MOULDED RUBBER; DRAWING NO: BBH7175, LA; SPECIFICATION: BBH7010, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E TRACTION DEVICE; PART SHALL BE MARKED WITH SUPPLIER'S NAME/LOGO AND MANUFACTURING DATE; FAI: SAMPLE WITH SUPPLIER'S TEST RESULTS SHALL BE SENT TO PRODUCT DEVELOPMENT TO VERIFY RESULTS WITH TFR VIT AT THE DYNAMIC TEST FACILITY. INTERNAL USE: CRRC P/N: AB01014569; CRRC ASM DRAWING: AB01013033A ITEM: 29; MAINTENANCE MANUAL: MM0408	640
068823151	GEARCASE, MOTOR APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E TYPE ASSEMBLY BOGIE DRAWING NO: AB01007297G020 CSR CORPORATION LIMITED REV LATEST	24
08422E0377	ASSEMBLY TYPE CONNECTION BAR ELECTRIC LOCOMOTIVE CLASS 22E DRAWING NO: AB01013033A CSR CORPORATION LIMITED REV LATEST ITEM 32, AB01013566A REV LATEST	24

08422E0378	PIN; TYPE: CONECTION; P/N: AB01013371A, CSR CORPORATION LIMITED; DRAWING NO: AB01013033A, ITEM: 21, CSR CORPORATION LIMITED; SPECIFICATION: 42CRMO GB/T3077-1999; USED ON: ELECTRIC LOCOMOTIVE CLASS 22E TRACTION DEVICE	10
08422E0428	ELBOW TYPE BIN P/N: AB01013370A CSR CORPORATION LIMITED USED ON: ELECTRIC LOCOMOTIVE CLASS 22E TRACTION DEVICE SPECIFICATION: 42CRMO, GB/T3077-1999 DRAWING NO: AB01013033A REV LATEST ITEM 26, AB01013370A REV LATEST	5
084827683	PIN; TYPE: TRACTION 1; DRAWING NO: AB01013033A, ITEM: 16; ELECTRIC LOCOMOTIVE CLASS 22E, TRACTION DEVICE	5
084827692	PIN; TYPE: TRACTION 2; DRAWING NO: AB01013033A-JC, ITEM: 11; ELECTRIC LOCOMOTIVE CLASS 22E, TRACTION DEVICE	5
084835645	COVER; TYPE: ASSEMBLY GEAR, MATERIAL: STEEL, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E; P/N: AB01007371G020, CSR CORPORATION LIMITED	36
085833750	ASSEMBLY TYPE GEARCASE APPLICATION ELECTRIC LOCOMOTIVE CLASS 21E REFERENCE: MM0403 DRAWING NO: AB01007360G020 CSR CORPORATION LIMITED REV LATEST	32
085832377	PCB;P/N:TE496-050000,CL 22E BOARD, PRINTED CIRCUIT ELECTRICAL LOCOMOTIVE CLASS 22E	15
085832380	PCB;P/N:TE6110030000-001,CL 22E BOARD, PRINTED CIRCUIT ELECTRICAL LOCOMOTIVE CLASS 22E	15
085832381	PCB;P/N:ZS826E-730-000,CL 22E BOARD, PRINTED CIRCUIT ELECTRICAL LOCOMOTIVE CLASS 22E	15
085832382	PCB;TE7709090000,CSR CORP;CL 22E BOARD, PRINTED CIRCUIT; ELECTRICAL LOCOMOTIVE CLASS 22E; TCU DIGITAL INPUT AND OUTPUT DIO	15
085832382R	REPAIR, UNIT;DIGITAL I/O;21E REPAIR, UNIT; TYPE: DIGITAL INPUT/OUTPUT, LOCATION: ELECTRIC LOCOMOTIVE CLASS 21E; CATALOGUE: MM0117, CRRC CORPORATION L WING NO: TE7709090000, LA; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT; LCC; P/N: TE7709090000 CRRC CORPORATION LI	10
085832383	PCB;TE283A000000,CSR CORP;CL 22E BOARD, PRINTED CIRCUIT; ELECTRICAL LOCOMOTIVE CLASS 22E; TCU SWITCHING POWER SUPPLY PWU	15
085832385	PCB;P/N:TE6007100000,CL 22E BOARD, PRINTED CIRCUIT ELECTRICAL LOCOMOTIVE CLASS 22E	12
084837508	VALVE, RELIEF; TYPE: PRESSURE,LV74G-4GK-NMN; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E PANTO CONTROL; MEDIUM: COMPRESSED AIR; MAX INLET PRESSURE: 20 BAR; RELIEF PRESSURE: 0.3 TO 10 BAR; OPERATING TEMP: -34C TO 80 °C; PORT SIZE: ISO G1/2" PARALLEL; MANUFACTURER: NORGREN; MODEL: LV74G-4GK-NMN; SHOCK AND VIBRATION: EN 61373, CATEGORY 1, CLASS A AND B; INTERNAL USE: MAINTENANCE MANUAL: MM0101-ADD; 20E/21E/22E CODE: SI; REPLACES F74G-4GK-NMN	110
084837522	VALVE, SOLENOID; TYPE: 2401153-0800-110-00; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E PANTO CONTROL; TYPE: 3/2 WAY DIRECT SOLENOID ACTUATED POPPET VALVE; MEDIUM: COMPRESSED AIR; OPERATION: DIRECT SOLENOID; FLOW: 340 L/MIN; OPERATING PRESSURE: 0 - 10 BAR; OPERATING TEMP: -25C TO 80 °C; TEST CERT: IEC 61508 SIL 3; ORIFICE: 5MM; HOUSING: BRASS; MANUAL OVERRIDE: NONE; PORT SIZE: ISO G1/4"; SOLENOID TYPE: 0800; CONNECTOR: DIN EN 175301-803 FORM A (DIN 43650 A); VOLTAGE: 110V DC; MANUFACTURER: NORGREN; ORDER: 2401153-08 00-110-00; ALTERNATIVE: VR24B9665-0147P; INTERNAL USE: MAINTENANCE MANUAL: MM0101-ADD; CODE: VE	110

084837523	VALVE, SOLENOID; TYPE: 9710535-0242-110-00; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E PANTO CONTROL; TYPE: 5/2 WAY INLINE SOLENOID ACTUATED SPOOL VALVE; MEDIUM: COMPRESSED AIR; ACTUATION/RETURN: SOLENOID/SPRING; FLOW: 1300 L/MIN; OPERATING PRESSURE: 2.5 - 8 BAR; OPERATING TEMP: -40C TO 65 °C; TEST CERT: IEC 61508; ORIFICE: 6MM; PORT SIZE: ISO G1/4"; SOLENOID TYPE: 0242; VOLTAGE: 110V DC; CONNECTOR: DIN EN 175301-803, FORM A (DIN 43650 A) MANUFACTURER: NORGREN; ORDER CODE: 9710535-0242-110-00; ALTERNATIVE: VR61B517A-D127N; INTERNAL USE: MAINTENANCE MANUAL: MM0101-ADD; CODE: MV5/2	110
084853641	VALVE, RELIEF; TYPE: PRESSURE, 30981698 CRRC, 21E, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20/21/22E; P/N: 30981698, CRRC CORPORATION LIMITED; PRESSURE RELIEVE VALVE USE: CLASS 20E/21E/22E, SAFETY VALVE P/N: 30981698, MODEL/TYPE: 501-A CORPORATION LIMITED; E CLASS 20E/21E/22E REFERENCE MANUAL: MM0115	35
085874894	VALVE, RELIEF; TYPE: PRESSURE; P/N: FM1815-S3 , CSR CORPORATION LIMITED; PRESSURE RELIEVE VALVE, MICRO SWITCH ASSEMBLY USE: CLASS 20E/21E/22E, TYPE OF SENSOR LIMIT SWITCH E CLASS 20E/21E/22E	15
013826918	HOSE AIR DUCT;P/N:3910000974,22E HOSE, AIR DUCT P/N: 3910000974 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E FLEXIBLE AIR DUCT INSTALLATION DRAWING NO: AJA1013508A CSR CORPORATION LIMITED REV LATEST ITEM 1	1000
062823201	HORN;AIR H/TONE,ELEC LOCO CL 20E HORN TYPE AIR HIGH TONE APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E SPECIFICATION: GZD7053F1 DRAWING NO: 80003911000020 CSR CORPORATION LIMITED REV LATEST	15
062823202	HORN;80003911000021,CSR CORP HORN; TYPE: AIR LOW TONE, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E; P/N: 80003911000021, CSR CORPORATION LIMITED; SPECIFICATION:GZD7053B3	15
084823256	MODULE;80006990005733,CSR CORP MODULE; TYPE: GWM GATEWAY, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E; SPECIFICATION: ZS826E-112-000	20
085817534	MODULE;DXME,P/N:ZR6990005738 MODULE TYPE DXME P/N: ZR6990005738 CSR CORPORATION LIMITED 20E CAB CN+EN	5
085823257	MODULE;ANALOG I/O AXM MODULE TYPE ANALOG INPUT/OUTPUT AXM APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/22E P/N: 80006990005740 CSR CORPORATION LIMITED SPECIFICATION: ZS826E-262-000 DRAWING NO: 80006990005740 CSR CORPORATION LIMITED REV LATEST	20
085823258	MODULE;80006990004275,CSR CORP;20E MODULE; TYPE: DIGITAL DIM INPUT, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E	20

085823260	MODULE;ELECT RECORD MACH,20E/22E MODULE TYPE ELECTRONIC RECORDING MACHINE ELECTRIC LOCOMOTIVE CLASS 20E/22E SPECIFICATION: ZS826E-113-000 DRAWING NO: 80006990005735 CSR CORPORATION LIMITED REV LATEST	10
085823313R	REPAIR, UNIT;CONVRT MODULE;21E REPAIR, UNIT; TYPE: CONVERTER MODULE, ADDITIONAL EQUIPMENT: INV1/INV2/4QC1/4QC2, LOCATION: ELECTRIC LOCOMOTIVE CLASS 21E; CATALOGUE: MM0117, CRRC CORPORATION LIMITED; DRAWING NO: TE6921910000, LA; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT; LCC; P/N: TE6921910000 CRRC CORPORATION LIMITED	100
085823314R	REPAIR, UNIT;IGBT MOD,ELEC LOCO CL 22E REPAIR, UNIT; TYPE: INSOLATED GATE BIPOLAR TRANSISTOR MODULE, LOCATION: ELECTRIC LOCOMOTIVE CLASS 22E	50
085832312	MODULE;TYPE: ANTENNA COMBINER;ANTENNA COMBINER (A82)USE: CLASS 20E/21E/22E, WTD AND POWER MANAGEMENT SYSTEM,P/N:80006200001277, MODEL/DRW NO: W200000053,CSR CORPORATION LIMITED;E CLASS 20E/21E REFERENCE MANUAL: MM0702	20
085840780	MODULE;LED DC H/VOLT DSP;MOD:DJ4000 MODULE; TYPE: LIGHT EMITTING DIODES DIRECT CURRENT HIGH VOLTAGE DISPLAY, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E AND 21E; P/N: W600001688, CSR CORPORATION LIMITED; MODEL NO: DJ4000; MM0117	15
085844088	MODULE;TE629-070000,CRRC;PULSE DB;21E MODULE; TYPE: PULSE DISTRIBUTION, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: TE629-070000, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E	15
085844089	MODULE;TE6290060000,CRRC;ANALOG INPUT A MODULE; TYPE: ANALOGUE INPUT A, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: TE6290060000, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E	15
085844090	MODULE;TE6290080000,CRRC;ANALOG INPUT B MODULE; TYPE: ANALOGUE INPUT B, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: TE6290080000, CRRC CORPORATION LIMITED	15
085844091	MODULE;TE6225040000,CRRC;NET SIDE SIGNAL MODULE; TYPE: NET SIDE SIGNAL, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: TE6225040000, CRRC CORPORATION LIMITED	15
085844092	MODULE;TE6168020000,CRRC;NET SIDE CNTL MODULE; TYPE: NET SIDE CONTROL, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: TE6168020000, CRRC CORPORATION LIMITED	15
085844094	MODULE;TE6168010000,CRRC;MOTOR CNTL;21E MODULE; TYPE: MOTOR CONTROL, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: TE6168010000, CRRC CORPORATION LIMITED	15

085844096	MODULE;TE6168200000,CRRC;AUX INVERT CNTL MODULE; TYPE: AUXILIARY INVERTER CONTROL, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: TE6168200000, CRRC CORPORATION LIMITED	15
054849030	MODULE; TYPE: INSOLATED GATE BIPOLAR TRANSISTOR DEVICE FZ-750R65 KE 3, MAIN; SPECIFICATION: RD_RD_KLP_SPEC_0072, LA, ITEM: 6.1; USE ON ELECTRIC LOCOMOTIVE CLASS 20/21/22E; MAIN INVERTOR	160
054849031	MODULE; TYPE: IGBT DEVICE FZ- 600R65 KE 3, AUX; SPECIFICATION: RD_RD_KLP_SPEC_0072, LA, ITEM: 6.2; USE ON ELECTRIC LOCOMOTIVE CLASS 20/21/22E; AUXILIARY INVERTOR	160
085823313	MODULE;CONVRT;20/22E MODULE; TYPE: CONVERTER; SPECIFICATION: RD_RD_KLP_SPEC_0072, LA; (FOUR-QUADRANT/MAIN INVERTER); ELECTRIC LOCOMOTIVE CLASS 20E; 22E; FUNCTION: FOUR QUADRANT RECTIFIER, CHANGE THE INPUT AC TO THE INTERMEDIATE DC VOLTAGE. MAINTENANCE MANUAL: MM0117	24
085823314	MODULE;CONVRT;20E/22E MODULE; TYPE: CONVERTER; SPECIFICATION: RD_RD_KLP_SPEC_0072, LA; (AUXILIARY INVERTER); ELECTRIC LOCOMOTIVE CLASS 20E; 22E; FUNCTION: VVVF INVERTER, CHANGE THE INTERMEDIATE DC VOLTAGE TO 3 PHASE ALTERNATING CURRENT. MAINTENANCE MANUAL: MM0117	12
085832312	MODULE;TYPE: ANTENNA COMBINER;ANTENNA COMBINER (A82)USE: CLASS 20E/21E/22E, WTD AND POWER MANAGEMENT SYSTEM,P/N:80006200001277, MODEL/DRW NO: W200000053,CSR CORPORATION LIMITED;E CLASS 20E/21E REFERENCE MANUAL: MM0702	20
085874887	MODULE; TYPE: FULL CONTACT CONTENDER TELEVISION, NVR; P/N: W600001787, CSR CORPORATION LIMITED; FCCTV AUDIO AND VIDEO RECORDING MODULE (A86) USE: CLASS 20E/21E/22E, FCCTV SYSTEM, P/N: W600001787, CSR CORPORATION LIMITED; E CLASS 20E/21E/22E; REFERENCE MANUAL: MM0744	20
085823264	MODULE; TYPE: FIRE ALARM (A91), APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; FIRE ALARM MODULE (A91) USE: CLASS 20E/21E/22E, SMOKE DETECTION SYSTEM, P/N: 80003395000070, TYPE: JMFCU01ST, CSR CORPORATION LIMITED; E CLASS 20E/21E/22E; REFERENCE MANUAL: MM0141 /MM0703	10
085874891	DEVICE; TYPE: WIRELESS DATA TRANSMIT DEVICE-A, 22E; P/N: 80006200002580, CSR CORPORATION LIMITED; WIRELESS DATA TRANSMIT DEVICE (WTD-A) (A81) USE: CLASS 22E, WTD AND POWER MANAGEMENT SYSTEM, E CLASS 22E REFERENCE MANUAL: MM0702	5
085823272	MODULE; TYPE: WIRELESS DATA HOST WHAT TO DO A81, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E; WIRELESS DATA TRANSMIT DEVICE WTD HOST (A81) USE: CLASS 20E/21E, WTD AND POWER MANAGEMENT SYSTEM, P/N:80006200001274, CSR CORPORATION LIMITED; E CLASS 20E/21E REFERENCE MANUAL: MM0702	5
085874892	DEVICE; TYPE: WIRELESS DATA TRANSMIT DEVICE-B, 22E; P/N: 80006200002581, CSR CORPORATION LIMITED; WIRELESS DATA TRANSMIT DEVICE (WTD-B) (A83) USE: CLASS 22E, WTD AND POWER MANAGEMENT SYSTEM, E CLASS 22E REFERENCE MANUAL: MM0702	5
085817979	ANTENNA TYPE WIRELESS DATA TRANSMISSION P/N: ZR6200001299 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 20E/22E SPECIFICATION: W200000054 CSR CORPORATION LIMITED DRAWING NO: ZR6200001299 CSR CORPORATION LIMITED REV LATEST	20

085832384	BOARD, PRINTED CIRCUIT; TYPE: UNDER FILTAGE FILTER; UNDER VILTAGE FILTER CARD USE: CLASS 20E/21E/22E P/N:TE431-030000, CSR CORPORATION LIMITED; E CLASS 20E/21E/22E REFERENCE MANUAL: MM0117	15
085844177	PAD; TYPE: OVERVOLTAGE ABSORBENT B1-B4; OVERVOLTAGE ABSORBENT PAD ASSEMBLY B1 - B4 USE: CLASS 20E/21E/22E P/N: QB1A-00-00, CSR CORPORATION LIMITED; E CLASS 20E/21E/22E REFERENCE MANUAL: MM0117	24
084819404	FITTING;1621008191,CSR CORP;22E FITTING; P/N: 1621008191, CSR CORPORATION LIMITED; NVNV CONNECTOR; TYPE: NVNV-M162-10; AXLE NO: 1,2,5 AND 6	10
084844169	SOCKET;W70200024301,CRRC;21E SOCKET; P/N: W70200024301, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: XCB27F24ZD/24, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 3; CIRCULAR; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	10
085818198	CONTACT ELECT;ZR7701006703,CSR CORP;22E CONTACT, ELECTRICAL; P/N: ZR7701006703, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E; TYPE: YG4506 22004; AXLE	0
085818200	SKT ELEC;ZR7701006701,CSR CORP;22E SOCKET, ELECTRICAL; P/N: ZR7701006701, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 22E; TYPE : YGC-QS13K5ZY-B; AX 5 AND 6	125
085823327	RESISTOR;P/N: W400000290,CSR CORP RESISTOR; ELECTRIC LOCOMOTIVE CLASS 20E; 22E	45
085823329	RESISTOR FIXED;W400000827,CSR CORP RESISTOR, FIXED; TYPE: DISCHARGING; ELECTRIC LOCOMOTIVE CLASS 20E; 22E	45
085844163	SHELL ELEC CONNECTOR;W70700300100,CRRC SHELL, ELECTRICAL CONNECTOR; TYPE: BOTTOM; P/N: W70700300100, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: 9300100301, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 3; FOR CONNECTOR X1,X2,X3; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	10
085844167	RESISTOR ASSY;W4000001757,CRRC;21E RESISTOR ASSEMBLY; TYPE: CHARGING ASSEMBLY R2; P/N: W4000001757, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPO TED; DRAWING NO: RX-20KJ-65?±5%, LA, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AN CONTROL UNIT	45

085844168	RESISTOR ASSY;W4000001758,CRRC;21E RESISTOR ASSEMBLY; TYPE: CHARGING ASSEMBLY R5; P/N: W4000001758, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: RXGI-20KJ-65RJ, LA, CRRC CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	45
085844171	CONNECTOR;TE6918A50010,CRRC;21E/22E CONNECTOR; P/N: TE6918A50010, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: TE6918A CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 2; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND NTROL UNIT	10
085844176	CONNECTOR;W70700100730,CRRC;JACK;21E CONNECTOR; TYPE: JACK; P/N: W70700100730, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: 9150006202, LA, CRRC CORPORATION LIMITED; CONNECTOR X1/X2/X3/X5; QUANTITY PER CONVERTER CABINET: 65; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	500
085844181	PIN ELEC CONECT;W70700100700,CRRC;21E PIN, ELECTRICAL CONNECTOR; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: W70700100700, CRRC CORPORATION LIMITED; CATA 44, CRRC CORPORATION LIMITED; DRAWING NO: 9150006103, LA, CRRC CORPORATION LIMITED; CONTACT X1,X2,X3,X5; QUANTITY PER CO INET: 65; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	500
085844185	SKT ELEC;RECT CONECT X5;21E SOCKET, ELECTRICAL; TYPE: RECTANGULAR CONNECTOR X5; P/N: W70500006200, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC N LIMITED; DRAWING NO: 0933 006 2701\\6 CORE, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 1; ELECTRIC CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	10
085844186	SKT ELEC;RECTR CONECT X1/X2/X3;21E SOCKET, ELECTRICAL; TYPE: RECTANGULAR CONNECTOR X1/X2/X3; P/N: W70500042000, CRRC CORPORATION LIMITED; CATALOGUE: MM0144 ORATION LIMITED; DRAWING NO: 9160423101, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 3; ELECTRIC LOCOM 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	10
085844191	COVER;TOP SHELL X1/X2/X3;21E COVER; TYPE: TOP SHELL X1/X2/X3; P/N: W70700200117G, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: 19300100527, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 3; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	10

071817855	JUNCTION BOX;6911001275,CSR CORP;20E/22E JUNCTION BOX; P/N: 6911001275, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 20E/22E; REFERENCE TO AB01013861A	16
085821547	CONNECTOR CABLE;P/N:3451000158,20E CONNECTOR, CABLE P/N: 3451000158 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 20E SPECIFICATION: 25M 0207B00411 DRAWING NO: ZRAJE1000852 CSR CORPORATION LIMITED REV LATEST ITEM 162 ORDER 166	16
085821548	CONNECTOR CABLE;P/N:3451000162,20E/22E CONNECTOR, CABLE P/N: 3451000162 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 20E/22E SPECIFICATION: 7M 0207B00411 DRAWING NO: ZRAJE1000852 CSR CORPORATION LIMITED REV LATEST ITEM 171	16
085817961	ARRESTER ELECT;ZR3241005018,CSR CORP ARRESTER, ELECTRICAL; P/N: ZR3241005018, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 20E CN+EN; 22E	90
068823150	GEAR;WHEEL RING, CL 20E/22E,AB01007629G0 GEAR TYPE WHEEL RING ELECTRIC LOCOMOTIVE CLASS 20E / 22E BOGIE; DRAWING NO: PELG_176Z_0572, LA; DRAWING NO: AB01007629G030 CSR CORPORATION LIMITED REV LATEST MAGNETIC PARTICLE INSPECTION TO BE DONE ACCORDING TO SPECIFICATION: RS/ME/PR/026	50
068823150R	REPAIR UNIT;GEAR TEETH 103,20E/22E GEAR REPAIR, UNIT; TYPE: GEAR TEETH 103, LOCATION: 20E/22E GEAR; DRAWING NO: PELG_176Z_0572, LA; GEAR TO BE REPROFILED ACCORDING TO SPECIFICATION RSE/TE/SPC/0036	20
/069831826	WHEEL RAILWAY;CENTRE,20E/22E,ID:232 MM WHEEL, RAILWAY; TYPE: CENTRE, 20E/22E, INSIDE DIAMETER: 232 MM, OUTSIDE DIAMETER: 1.22 M, MATERIAL: STEEL; DRAWING NO: P LA; SPECIFICATION: RS_ME_SP_021, LA; ELECTRIC LOCOMOTIVE CLASS 20E/22E; FOR GEAR AND NON GEAR SIDE	200
069826637	AXLE RAILWAY;20E,LG:1.952 M,STL,LOCO AXLE, RAILWAY; TYPE: 20E, AXLE OVERALL LENGTH: 1.952 M, MATERIAL: STEEL, CLASS: LOCOMOTIVE, APPLICATION: ELECTRIC LOCOMO 20E; P/N: AB01007578G030, CSR CORPORATION LIMITED; DRAWING NO: SA95NEL-DW-B10, LA; PELG_176Z_0569, LA	768
069831687	AXLE RAILWAY;LG:1.95 M,ELEC LOCO CL 21E AXLE, RAILWAY; AXLE OVERALL LENGTH: 1.95 M, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: AB01012204, CSR CORPORATION RAWING NO: PELG_176Z_0574, LA	40
069831803	HUB;AB01007628G030,CSR CORP HUB; TYPE: GEAR, 20E AND 22E; P/N: AB01007628G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0630 , LA; ELECTRIC LOCOMOTIVE CLASS 20E AND 22E	35
069831805	COLLAR SHAFT;AXLE,20E/22E COLLAR, SHAFT; TYPE: AXLE, 20E AND 22E; P/N: AB01007571G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0623 , LA; E OMOTIVE CLASS 20E AND 22E	20

069831807	PAD;AB01007572G030,CSR CORP PAD; TYPE: ADJUSTABLE, 20E AND 22E; P/N: AB01007572G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0631, LA; ELECTRIC CLASS 20E AND 22E	50
069831810	BOX;AXLE HUNG,20E/22E BOX; TYPE: AXLE HUNG, 20E AND 22E; P/N: ABAB01007583G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0629, LA; ELECTRIC CLASS 20E AND 22E; THE MOTOR SUSPENSION MUST COMPLY TO SPECIFICATION RS/C/1/90	35
069831811	GEAR;WHEEL, 21E;AB01007631G030 CSR GEAR; TYPE: WHEEL, 21E; P/N: AB01007631G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0575 , LA; ELECTRIC LOCOMOTIVE CLASS 21E; MAGNETIC PARTICLE INSPECTION TO BE DONE ACCORDING TO SPECIFICATION: RS/ME/PR/026	35
069831811R	REPAIR UNIT;GEAR TEETH 103,21E GEAR REPAIR, UNIT; TYPE: GEAR TEETH 103, LOCATION: 21E GEAR; DRAWING NO: PELG_176Z_0575, LA; GEAR TO BE REPROFILED ACCORDING TO SPECIFICATION RSE/TE/SPC/0036	20
069831812	HUB;AB01007649G030,CSR CORP;GEAR, 21E HUB; TYPE: GEAR, 21E, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: AB01007649G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0573 , LA	40
069831816	BOX;AXLE HUNG,21E BOX; TYPE: AXLE HUNG, 21E; P/N: AB01011723G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0624 , LA; ELECTRIC LOCOMOTIVE CLASS 21E; THE MOTOR SUSPENSION MUST COMPLY TO SPECIFICATION RS/C/1/90	40
069831817	COLLAR SHAFT;AXLE, 21E,ELEC LOCO CL 21E COLLAR, SHAFT; TYPE: AXLE, 21E, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: AB01007580G030, CSR CORPORATION LIMITED DRAWING NO: PELG_176Z_0577, LA	20
069831819	PAD;ADJ,21E,ELEC LOCO CL 21E PAD; TYPE: ADJUSTABLE, 21E, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E; P/N: AB01007581G030, CSR CORPORATION LIMITED; DRAWING NO: PELG_176Z_0794 , LA	50
084827614	AXLE;AB01013833A-0041,CSR CORP;22E AXLE; DRAWING NO: AB01013833A, LA, ITEM: 1; PELG_176Z_0569, LA; ELECTRIC LOCOMOTIVE CLASS 22E	35
08422E0433	SLEEVE;NO 1,ELEC LOCO CL 22E,22E SLEEVE TYPE NO 1 APPLICATION ELECTRIC LOCOMOTIVE CLASS 22E P/N: AB01013425A CSR CORPORATION LIMITED DRAWING NO: AB01013033A CSR CORPORATION LIMITED REV LATEST ITEM 14, AB01013425A REV LATEST	320
08422E0434	SLEEVE;NO 2,ELEC LOCO CL 22E,22E SLEEVE TYPE NO 2 APPLICATION ELECTRIC LOCOMOTIVE CLASS 22E P/N: AB01013424A CSR CORPORATION LIMITED DRAWING NO: AB01013033A CSR CORPORATION LIMITED REV LATEST ITEM 15, AB01013424A REV LATEST	320

08422E0449	SLEEVE;NO 3,ELEC LOCO CL 22E,22E SLEEVE TYPE NO 3 APPLICATION ELECTRIC LOCOMOTIVE CLASS 22E P/N: AB01013376A CSR CORPORATION LIMITED DRAWING NO: AB01013033A-JC CSR CORPORATION LIMITED REV LATEST ITEM 10, AB01013376A REV LATEST	640
085817532	CONTROLLER;MASTER,P/N:ZRJQ00007643G00 CONTROLLER TYPE MASTER P/N: ZRJQ00007643G00 CSR CORPORATION LIMITED TKS39C(03)-0425 MASTER CONTROLLER - TKS39C(03)-0425; 20E CAB CN+EN	20
084862502	BELLOWS;CHANNEL,AIR INTAKE BELLOWS; TYPE: CHANNEL, AIR INTAKE; DRAWING NO: BBH5577 SHT 3, LA; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E TRACTION MOTOR MATERIAL: NOMEX; TFR DRAWING: BBH5577 SHT 3; INTERNAL USE: CRRC P/N: 1561000104 - RF1300000090; MAINTENANCE MANUAL: MM0606	960
084817598	SEAT VEHICULAR;DRIVERS,P/N:ZR3970000289 SEAT, VEHICULAR TYPE DRIVERS P/N: ZR3970000289 CSR CORPORATION LIMITED CAB SEAT; 20E CAB CN+EN; SPEC:KAB414 0207A00204	100
084827356	SEAT;UPPER,P/N:AB01012887A,22E SEAT TYPE UPPER P/N: AB01012887A CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E, PRIMARY SUSPENSION DEVICE DRAWING NO: AB01012887A REV LATEST, AB01013332A REV LATEST ITEM 7	30
08422E0381	CAP DUST/MOISTURE SEAL;P/N:AB01014284A CAP, DUST AND MOISTURE SEAL P/N: AB01014284A CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E DRAWING NO: AB01013033A CSR CORPORATION LIMITED REV LATEST ITEM 31, AB01014284A REV LATEST	320
085844166	CONTACTOR;W27249002506,CRRC;CHARGE;21E CONTACTOR; TYPE: CHARGING; P/N: W27249002506, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: LTCH60/1PNO/V/110/2, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 3X2; CONTACTOR KM4,KM5,KM6; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	20
085827111	CONVERTER;TRACTION,P/N:6911001567,22E CONVERTER TYPE TRACTION P/N: 6911001567 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 22E DRAWING NO: 6911001567 REV LATEST, AJA1013765A CSR CORPORATION LIMITED REV LATEST ITEM 1	2

085827111R	REPAIR, UNIT;PWR CONVRT CUBICLE;22E REPAIR, UNIT; TYPE: POWER CONVERTER CUBICLE, LOCATION: ELECTRIC LOCOMOTIVE CLASS 22E; CONVERTER, TRACTION; PN: 691100156 RATION LIMITED; MAINTENANCE MANUAL: MM0117	6
013819617	COUPLING TUBE;CU,P/N:3520006834,20E COUPLING, TUBE MATERIAL COPPER P/N: 3520006834 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 20E LUG 50MM x 12MM DRW: TRANSNET BAH-1 DRW: JA00002886G00A ITEM 1	110
084868304	COVER; TYPE: TAMPER RESISTANT, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E PANTO PANEL; P/N: 4355-50,NORGREN	560
084823252	DETECTOR;THERMAL,ELEC LOCO CL 20E DETECTOR TYPE THERMAL APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E DRAWING NO: 80003395000112 CSR CORPORATION LIMITED REV LATEST	35
084818030	DUCT;AIR,P/N:6912001393,20E DUCT TYPE AIR P/N: 6912001393 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 20E	680
085837517	GAUGE, PRESSURE; TYPE: 18-015-909; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E PANTO CONTROL; MEDIUM: COMPRESSED AIR; SCALE RANGE: 0 - 10 BAR; OPERATING TEMP: -40C TO 65 °C; ACCURACY: 2.5% OF FULL SCALE; PORT CONNECTION: CENTRE BACK 1/4" NPT; DIAME	460
085844175	INSULATOR;ZS145-00-45,CRRC;21E INSULATOR; P/N: ZS145-00-45, CRRC CORPORATION LIMITED; CATALOGUE: MM0144, CRRC CORPORATION LIMITED; DRAWING NO: ZS145-00-45, LA, CRRC CORPORATION LIMITED; QUANTITY PER CONVERTER CABINET: 3 X 2; ELECTRIC LOCOMOTIVE CLASS 21E; POWER CONVERTOR CUBICLE AND TRACTION CONTROL UNIT	30
084842241	KIT REPAIR;MASTER CNTLR 3 YR O/HAUL;21E KIT, REPAIR; TYPE: MASTER CONTROLLER 3 YEAR OVERHAUL, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21E, COMPRISING: PROGRAM KIT; CONSIST OFF: 2 SNAP-ACTION S826AL 80003960001410 EACH 7/LOCO 3 POSITIONING PIECE JQ00007634G00 EACH 1/LOCO 4 KEY AND DIRECTION UNIT ASSEMBLY JQ00007625G00 EACH 1/LOCO	228
085823269	METER WATTHOUR;KW,P/N:80004141000018 METER, WATTHOUR TYPE KILOWATT ELECTRIC LOCOMOTIVE CLASS 20E SPECIFICATION: EM4T DRAWING NO: 80004141000018 CSR CORPORATION LIMITED REV LATEST	5
013827118	NOZZLE;6912001751,CSR CORP;AIR VENT NOZZLE; TYPE: AIR VENT; P/N: 6912001751, CSR CORPORATION LIMITED; DRAWING NO: AJA1013727A, LA, ITEM: 6, CSR CORPORATION LIMITED; EL ECTRIC LOCOMOTIVE CLASS 21E/22E CAB AIR CONDITIONING DUCT INSTALLATION	1200

085826511	PANEL;P/N:JQ00007635G00A,22E PANEL ELECTRIC LOCOMOTIVE CLASS 22E; MASTER CONTROLLER-TKS39C(03)-0425 DRAWING NO: JQ00007635G00A REV LATEST, JQ00007643G00A CSR CORPORATION LIMITED REV LATEST ITEM 3	20
068843643	PIPE METAL;BRAKE SYS,STL;22E PIPE, METALLIC; TYPE: BRAKE SYSTEM, PIPE MATERIAL: STEEL; P/N: AJP1009321A, CSR CORPORATION LIMITED; PIPE UNDERFRAME; ELECTRIC LOCOMOTIVE CLASS 22E	80
084866185	RING;MIDDLE AXLE BRG BACKING,ID:170 MM RING; TYPE: MIDDLE AXLE BEARING BACKING, INSIDE DIAMETER: 170 MM, OUTSIDE DIAMETER: 235 MM, WIDTH: 45 MM, MATERIAL: STEEL SANS 50025 S355 JR+AR, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 22E; DRAWING NO: PEL99M_00563, LA; LG: 235 MM	50
08422E0380	RING;P/N:32210510018AA,22E RING P/N: 32210510018AA CSR CORPORATION LIMITED DUST GUARD, OIL RESISTANT 1 - 2; USED ON: 22E TRACTION DEVICE; ELECTRIC LOCOMOTIVE CLASS 22E DRAWING NO: 32210510018AA REV LATEST, AB01013033A CSR CORPORATION LIMITED REV LATEST ITEM 13	640
084823228	SET;80000952000408,CSR CORP;MASTER CNTLR SET; TYPE: MASTER CONTROLLER, QUANTITY: 2; P/N: 80000952000408, CSR CORPORATION LIMITED; TYPE: MASTER CONTROLLER DRIVER KEY; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/22E	350
084833849	SET;PRIMARY SPRING,ELEC LOCO CL 21E SET TYPE PRIMARY SPRING APPLICATION ELECTRIC LOCOMOTIVE CLASS 21E QUANTITY 16 MM0405 DRAWING NO: AB01012092 REV LATEST ITEM 1	184
068823152	SPRING;AB01006824G030,CSR CORP;PRIMARY SPRING; TYPE: PRIMARY; SPECIFICATION: 0207B00390, LA; ELECTRIC LOCOMOTIVE CLASS 20E BOGIE	184
084819390	STOPPER;P/N:ZRJB00000277G00,20E/22E STOPPER P/N: ZRJB00000277G00 CSR CORPORATION LIMITED ELECTRIC LOCOMOTIVE CLASS 20E/22E	944
085823328	UNIT CONTROL;P/N:TE6920000000,20/22E UNIT, TRACTION CONTROL; TCU COMPLETE; ELECTRIC LOCOMOTIVE CLASS 20/22E DRAWING NO: TE6920000000 CSR CORPORATION LIMITED REV LATEST	12
085832308	UNIT;6200002454,CSR CORP;DIGITAL DSP;22E UNIT; TYPE: DIGITAL DISPLAY; SPECIFICATION: TE8384000000, CSR CORPORATION LIMITED; ELECTRICAL LOCOMOTIVE CLASS 22E	20

085817599	UNIT;ZR6200001275,CSR CORP;AUX DSP UNIT; TYPE: AUXILIARY DISPLAY; P/N: ZR6200001275, CSR CORPORATION LIMITED; AUXILIARY DISPLAYING UNIT; 22E/20E CAB CN+EN	25
085835047	DISPLAY UNIT DATA;DIGITAL;21E DISPLAY UNIT, DATA; TYPE: DIGITAL; P/N: 6200002330, CSR CORPORATION LIMITED; ELECTRIC LOCOMOTIVE CLASS 21E	30
084848257	PINION; TYPE: GEAR, APPLICATION: YQ-775-1 CSR TRACTION MOTOR; P/N: AB01013758G020, CRRC CORPORATION LIMITED; DRAWING NO: PELG_176Z_ 0571 , LA; ELECTRIC LOCOMOTIVE CLASS 20E/22E	20
084838896	PINION; TYPE: GEAR, MATERIAL: STEEL 18CRNIMO7-6 OR 17CRNIMO6, DIMENSIONS: DIA 177.3 X LG 371 MM, APPLICATION: YQ-775 CSR TRACTION M OTOR; DRAWING NO: PELG_176Z_0570, LA; STATOR HOUSING ELECTRIC LOCOMOTIVE CLASS 21E	40
084837509	REGULATOR, PRESSURE; TYPE: AIR; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E PANTO CONTROL; MEDIUM: AIR; WORKING PRESSURE: 1- 8 BAR; INLET PRESSURE: 10 BAR; FLOW CAPACITY: UP TO 1500 L/MIN; SENSITIVITY: BETTER THAN 0.3 MBAR OF SUPPLY PRESSURE CHANGE	360
085837510	REGULATOR; TYPE: AIR FLOW, LT1000C2800; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E PANTO CONTROL; MEDIUM: COMPRESSED AIR; OPERATION: UNI-DIRECTIONAL FLOW REGULATOR; REGULATED FLOW FACTOR: 0.28 M3/H; FREE FLOW FACTOR: 0.6 M3/H; OPENING PRESSURE: <(110
085825734	RELAY PNEUMATIC;OIL FLOW,P/N:3382000208 RELAY, PNEUMATIC TYPE OIL FLOW P/N: 3382000208 CSR CORPORATION LIMITED	100
085823335	RELAY;INTM,P/N:W27201040222 RELAY TYPE INTERMEDIATE ELECTRICAL LOCOMOTIVE 20E; 22E DRAWING NO: W27201040222 CSR CORPORATION LIMITED REV LATEST	35
084817606	SWITCH;ZR6912001291,CSR CORP;PEDAL SWITCH; TYPE: PEDAL; P/N: ZR6912001291, CSR CORPORATION LIMITED; 20E CAB CN+EN	60
085851795	SWITCH ELECTRO;ETHERNET;22E SWITCH, ELECTRONIC; TYPE: ETHERNET; PART NUMBER: W200000970, CRRC; MAINTENANCE MANUAL: MM0701; ELECTRIC LOCOMOTIVE CLASS	10
085874888	Power over Ethernet switch (A89); Use: Class 20E/21E/22E, FCCTV System, P/N: 80006200001880, CSR CORPORATION LIMITED; E CLASS 20E/21E/22E; Reference Manual: MM0744 /MM0141	20
085826677	SWITCH KNIFE;BLADE,P/N:JQ00004236G00A SWITCH, KNIFE TYPE BLADE ELECTRIC LOCOMOTIVE CLASS 22E; ALTERNATIVE CURRENT EARTHING SWITCH DRAWING NO: JQ00004236G00A REV LATEST, JQ00007702G00A CSR CORPORATION LIMITED REV LATEST ITEM 1	125
085837516	SWITCH, PRESSURE; TYPE: 18D-LT; P/N: 0880457, NORGREN; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E PANTO CONTROL; MEDIUM: AIR; WORKING PRESSURE: 1 - 10 BAR; OPERATING TEMP: -40C TO 85 °C; RATED MAX VOLTAGE: 250V AC; RATED MAX CURRENT: 100 MA; PORT	110

085839089	SWITCH;DC EARTH,ELEC LOCO CL 20/21/22E SWITCH; TYPE: DIRECT CURRENT EARTHING, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20/21/22E; P/N: 80003301000484, CRRC CORPORATION LIMITED; DRAWING NO: 80003301000484, LA; HIGH VOLTAGE ELECTRICAL CUBICLE; MAINTENANCE MANUAL MM0105; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E; REFERENCE TO 3301000484: CRRC: AJA1005197A ITEM 7, <(>&<)> AJA1011075A, ITEM 7	20
085823324	SWITCH;ELECT,ISOLATING QSI 20/21/22E SWITCH,ELECTRICAL; TYPE: ISOLATING, QS1; SWITCH; 6 POLE ELECTRIC ISOLATING SWITCH; MAINTENANCE MANUAL: MM0117; QS1, HT CUBICLE; P/N: W200023149 CRRC; TYPE: HDS40-10-6 3C30; APPLICATION ELECTRIC LOCOMOTIVE CLASS 20E/21E/ 22E	12
085843186	LIGHT-SWITCH; TYPE: DIMMER, POWER RATING: 5 W; P/N: 80003950000381, CRRC CORPORATION LIMITED; SPECIFICATION: ZKP550 R70.30, LA; LOCOMOTIVE CLASS 20E/21E/22E CAB LIGHT SPEC: ZKP550 R70.30; RESISTANCE: 10 OHM TO 50 KOHM LINEAR CURVE; BREAKDOWN VOLTAGE: 320VAC / 450VDC; ROTATION ANGLE: +/- 300 DEGREE; SHAFT LENGTH: 15 MM; INTERNAL USE: CRRC P/N: 80003950000381, MM0508	40
085847225	BAR, MOUNTING; TYPE: TOP, MOUNTING TYPE: QSI SWITCH; DRAWING NO: RT_BLE_164, LA; QSI SWITCH, HT CUBICLE; MATERIAL: BAR, FLAT, COPPER; DIMENSIONS: 228 X 45 X 10 THK; SPEC: BS EN 12167:2016; USED ON ELECTRIC LOCOMOTIVE CLASS 20E/21E/22E	30
085842336	CONTROLLER;QS BOX,ELEC LOCO CL 20/21/22E; CONTROLLER; TYPE: QS BOX, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20/21/22E; SPECIFICATION: RD-RD-KDS-SPEC-0131 , LA	80
084837064	GUARD; APPLICATION: ELECTRIC LOCOMOTIVE CLASS 20/21E; P/N: 961000102, CRRC CORPORATION LIMITED; DRIVERS SIDE	8
084842240	KIT, REPAIR; TYPE: STONE GAURD 6 YEAR OVERHAUL, APPLICATION: ELECTRIC LOCOMOTIVE CLASS 21/22E, COMPRISING: PROGRAM KIT; CONSIST OFF : MM0308 SLIDE BLOCK 1 4 OFF 834256000070 MM0308 SLIDE BLOCK 2 4 OFF 834256000060	228
085874889	Hard Disk Use: Class 20E/21E/22E, FCCTV System, P/N: W200022450 or W600002055, CSR CORPORATION LIMITED; E CLASS 20E/21E/22E; Reference Manual: MM0744	20
085847774	Fire Alarm Buzzer (B79) Use: Class 20E/21E/22E, Smoke Detection System, P/N:80003911000360, Type: EAO 56-61011-00.21, CSR CORPORATION LIMITED; E CLASS 20E/21E/22E; Reference Manual: MM0703	10

Note: Bidders are advised that, prior to the release of any specifications or drawings, a duly signed Annexure F – Specification and Drawing Non-Disclosure Agreement (NDA) must be submitted to Lindy van Zyl via email at lindy.vanzyl@transnet.net . Only upon receipt of the signed NDA will Transnet Engineering provide the relevant available drawings and/or specifications to the bidder.

4 GREEN ECONOMY / CARBON FOOTPRINT

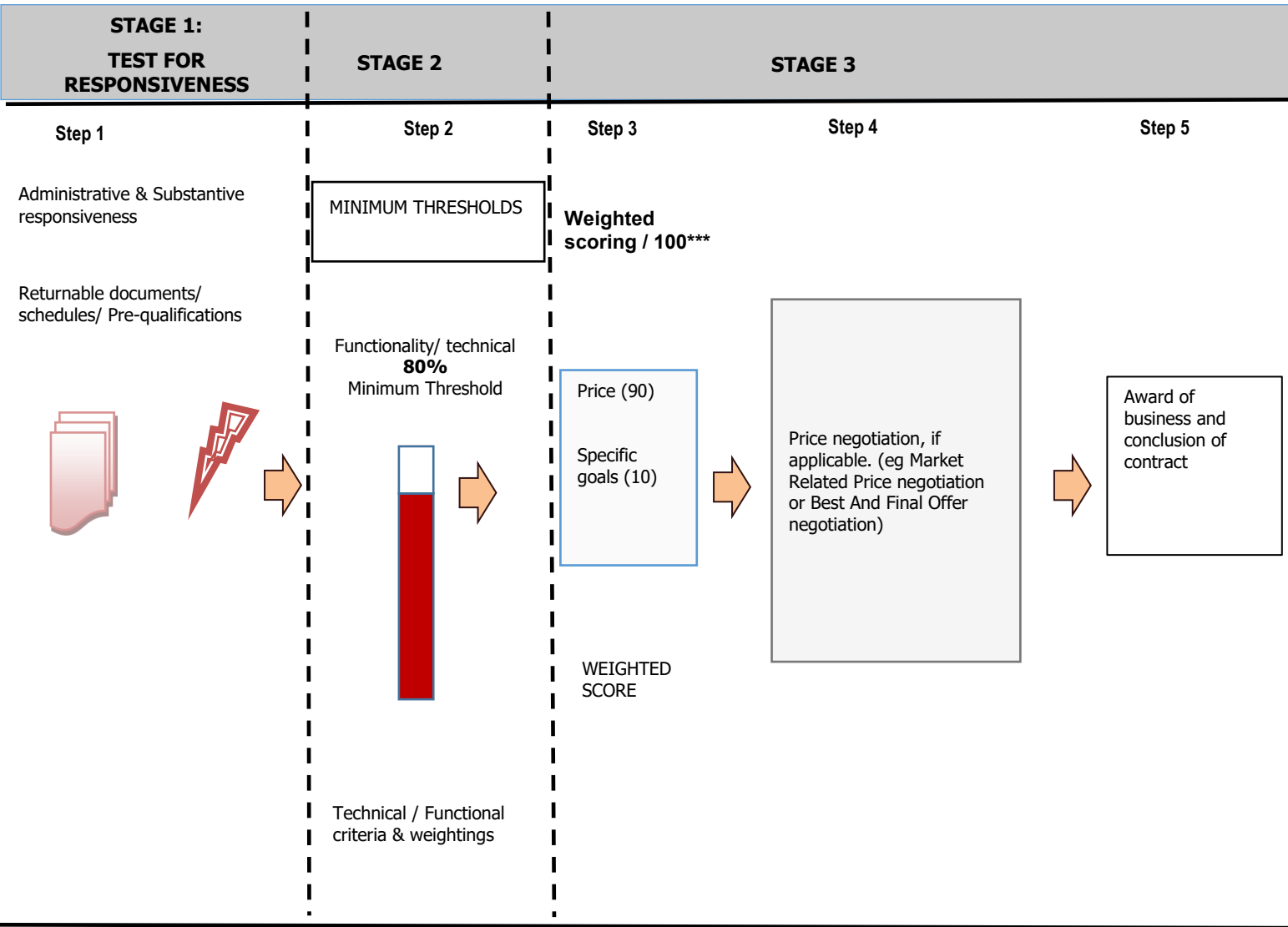
Transnet wishes to have an understanding of your company’s position with regard to environmental commitments, including key environmental characteristics such as waste disposal, recycling and energy conservation. *Please submit details of your entity’s policies in this regard.*

5 GENERAL SUPPLIER OBLIGATIONS

- 5.1 The Supplier(s) shall be fully responsible to Transnet for the acts and omissions of persons directly or indirectly employed by them.
- 5.2 The Supplier(s) must comply with the requirements stated in this RFP.

6 EVALUATION METHODOLOGY

Transnet will utilise the following methodology and criteria in selecting a preferred Supplier/Service provider:



NB: Evaluation of the various stages will normally take place in a sequential manner. However, in order to expedite the process, Transnet reserves the right to conduct the different steps of the evaluation process in parallel. In such instances the evaluation of bidders at any given stage must not be interpreted to mean that bidders have necessarily passed any previous stage(s).

6.1 STEP ONE: Test for Administrative and Substantive Responsiveness

The test for administrative responsiveness will include the following:

Administrative & Substantive responsiveness check	RFP Reference
<ul style="list-style-type: none"> Whether the Bid has been lodged on time 	<i>Section 1 paragraph 3</i>
<ul style="list-style-type: none"> Whether all Returnable Documents and/or schedules [where applicable] were completed and returned by the closing date and time 	<i>Section 5</i>
<ul style="list-style-type: none"> Verify the validity of all returnable documents 	<i>Section 5</i>
<ul style="list-style-type: none"> Verify if the Bid document has been duly signed by the authorised respondent 	<i>All sections</i>
<ul style="list-style-type: none"> Verify if the Bidder attended the compulsory RFP Briefing session 	Briefing Session Attendance register and Section 10: Certificate of Attendance of Compulsory RFP Briefing

The test for administrative responsiveness [Step One] must be passed for a Respondent's Proposal to progress to Step Two for further pre-qualification

Check for substantive responsiveness	RFP Reference
<ul style="list-style-type: none"> Whether the Bid contains a priced offer as prescribed in the pricing and delivery schedule 	<i>Section 4 and Annexure E – pricing schedule</i>

The test for administrative and substantive responsiveness [Step One] must be passed for a Respondent's proposal to progress to Step Two for further evaluation.

6.2 **STEP TWO: Minimum Threshold 80% for Technical Criteria**

The test for the Technical and Functional threshold will include the following:

MEASURE	CRITERIA	QUESTIONS	Portfolio of Evidence	SCORING METHOD	WEIGHTING
Original equipment manufacturer (OEM) or Original Parts Manufacturer (OPM) or agent	Ability to supply OEM/OPM Parts	Can your company supply the original equipment manufacturer (OEM) or Original Parts Manufacturer or agent of OPM/OEM of parts?	<ul style="list-style-type: none"> Signed Letter from OEM/OPM Signed Contract from Fleet OEM Technical Datasheet 	<ul style="list-style-type: none"> Signed OEM/OPM/agent letter and Technical Datasheets submitted = 3 points Signed OEM/OPM/agent letter only submitted = 2 points Submitted only Technical Datasheets = 1 point No OEM/OPM/Agent signed and no technical datasheets submitted = 0 points 	15%
Previous experience	*Previous experience related to supplying parts for locomotives or industrial applications. *Indicate which of the current parts on the locomotive were supplied by the company or for which of the parts on the locomotive do they have proven knowledge	Has your company supplied similar parts for use on locomotives or in the industrial market (SOE/Manufacturing Plant/Factories)?	Bidder to provide a signed letter of reference/completion certificate/delivery note on referee letterhead with contactable contact details from different clients indicating previous experience supplying parts	<ul style="list-style-type: none"> Three or more Reference/Completion Certificates = 3 points Two Reference/Completion Certificates = 2 points One Reference/Completion Certificate = 1 point No similar work = 0 points 	40%
		Has your company supplied parts that are currently being used on locomotive fleets?	Bidder to provide datasheet showing parts that are currently being used on locomotives and details of the locomotive.	Datasheet stating part approved for railway application with delivery certificates = 3 points No parts currently in use = 0 points	15%
Procurement and Logistics Capability	Will have proven capability to procure and store material, parts and components to manufacture the subsystems and components where necessary.	Will have proven capability to procure and store material, parts and components to manufacture the subsystems and components where necessary.	<ul style="list-style-type: none"> * Proof of storage facility (proof of address) * Storage Capacity documentation 	Submitted proof of storage Facility and storage capacity documentation = 3 points None submitted = 0 points	5%
Quality Management System	Have ISO rating: The Contractor and its Sub-Contractors has ISO rating 9001: 2015 as a basis for their Quality Management System or the latest version if applicable. Alternatively supplier and its subcontractors	Have ISO rating: The Contractor has ISO rating 9001: 2015 as a basis for their Quality Management System or the latest version if applicable.	* Quality management system or/and ISO certification 9001:2015.	Submitted valid ISO 9001:2015 certificate = 3 points Submitted Internal QMS Plan only = 2 points No QMS or ISO 9001/2015 certificate submitted = 0 points	10%

	have a Quality Management Policy in place. Submit a proof of quality management system.				
Successful Deliveries	evidence of similar parts delivered.	Typical design lead times/turnkey project timelines	Provide the relevant References: *Delivery Note with client's contact details	>3 references provided = 3 points 2 references provided = 2 points 1 reference provided = 1 point No references provided = 0 Points	15%

Respondents are to note that Transnet will round off final technical scores to the nearest 2 (two) decimal places for the purposes of determining whether the technical threshold has been met

The minimum threshold for technical/functionality [Step Two] must be met or exceeded for a Respondent's Proposal to progress to Step three for final evaluation

6.3 **STEP THREE: Evaluation and Final Weighted Scoring**

a) **Price and TCO Criteria** [Weighted score 90 points]:

Evaluation Criteria	RFP Reference
<ul style="list-style-type: none"> • Commercial offer 	<i>Section 4</i>
<ul style="list-style-type: none"> • Commercial discounts¹ • Price adjustment conditions / factors • Exchange rate exposure • Disbursements 	<i>Section 4</i>

Transnet will utilise the following formula in its evaluation of Price:

$$PS = 90 \left(1 - \frac{Pt - Pmin}{Pmin} \right)$$

Where:

- Ps* = Score for the Bid under consideration
- Pt* = Price of Bid under consideration
- Pmin* = Price of lowest acceptable Bid

¹ Only unconditional discounts will be taken into account during evaluation. A discount which has been offered conditionally will, despite not being taken into account for evaluation purposes, be implemented when payment is effected

- b) **Specific Goals** [Weighted score 10 point]
- Specific goals preference points claim form
 - Preference points will be awarded to a bidder for attaining the specific goals requirements in accordance with the table indicated in Section 4.1 of the specific goals Claim Form.

6.4 SUMMARY: Applicable Thresholds and Final Evaluated Weightings

Thresholds	Minimum Threshold
Technical / functionality	80%

Evaluation Criteria	Final Weighted Scores
Price	90
Specific goals - Scorecard	10
TOTAL SCORE:	100

Bidders to note:

Transnet Engineering may, where appropriate, award this contract to more than one Supplier to enhance value, reduce operational risk, and ensure continuity of supply. As a general rule, awards are made to the highest-ranked Bidder per material category or sub-group within a material category.

However, Transnet Engineering may apply a split award per material category or sub-group within a material category and may appoint up to three (3) Suppliers, limited to the three highest-ranked Bidders, provided that the prices of the second- and third-ranked Bidders are within 12% of the highest-ranked Bidder. The allocation of the total award of the material category or sub-group within the material category may be as follows: the highest-ranked Bidder will be allocated seventy percent (70%), the second-ranked Bidder twenty percent (20%), and the third-ranked Bidder ten percent (10%). If this threshold is not met, the award will be made to the highest-ranked Bidder only within the material category or sub-group within the material category. Split awards will only be applied where justified (supply risk, capacity constraints and continuity requirements).

Transnet reserves the right not to split the award as envisaged if such a split would lead to conflict with the principles of cost-effectiveness.

Note:

- Where all responsive Bidders have submitted bids for all items within a material category, evaluation shall be conducted on the basis of the total price for all items in that category. Bidders shall be ranked accordingly, and award/s shall be made at material category level.
- Where not all Bidders have quoted on all items within a material category, or where a combination of full and partial bids is received, Transnet Engineering shall apply a structured grouping methodology to ensure fair and comparable evaluation.
 - Bidders shall be grouped according to identical items quoted within the material category.
 - Each sub-group shall be evaluated independently based on the total price of the items within that sub-group.
 - Bidders within each sub-group shall be ranked accordingly.
 - Award/s shall be made at sub-group level within the material category, in line with the applicable award approach set out above.

- Notwithstanding the above, where a Bidder submits a price for only one item within a material category, Transnet Engineering reserves the right, where commercially and operationally justified, to evaluate such submission independently at item level.
- In such instances:
 - The evaluation of the single-item submission shall not impact the comparative evaluation outcomes of other Bidders evaluated at material category or sub-group level; and
 - Any resulting award shall be limited strictly to the specific item quoted.

This provision is intended solely to address exceptional single-item submissions and shall not be interpreted as establishing a general principle of line-item awards.

6.5 **STEP FOUR: Price Negotiations (if applicable)**

- Respondents are to note that Transnet may not award a contract if the price offered is not market-related. In this regard, Transnet reserves the right to engage in PTN with the view to achieving a market-related price or to cancel the tender. Negotiations will be done in a sequential manner i.e.:
 - first negotiate with the highest ranked bidder or cancel the bid, should such negotiations fail,
 - negotiate with the 2nd and 3rd ranked bidders (if required) in a sequential manner.
 - Transnet reserves the right, where more than one bidder qualifies within an material category, to engage not only the highest-ranked bidder but also the second- and third-ranked bidders where appropriate.
- In the event of any Respondent being notified of such short-listed/preferred bidder status, his/her bid, as well as any subsequent negotiated best and final offers (BAFO), will automatically be deemed to remain valid during the negotiation period and until the ultimate award of business.
- Should Transnet conduct post tender negotiations, Respondents will be requested to provide their best and final offers to Transnet based on such negotiations. Where a market related price has been achieved through negotiation, the contract will be awarded to the successful Respondent(s).

6.6 **STEP FIVE: Award of business and conclusion of contract**

- Immediately after approval to award the contract has been received, the successful bidder(s) will be informed of the acceptance of his/their Bid by way of a Letter of Award. Thereafter the final contract will be concluded with the successful Respondent(s). where applicable.
- Alternatively, acceptance of a letter of award by the Successful Respondent. will constitute the final contract read together with their RFP response and the Standard Terms and Conditions. This will be stated in the letter of award.

SECTION 4: PRICING AND DELIVERY SCHEDULE

Respondents are required to complete the table below:

Description	Number of items in Material category	Number of items Bidder is quoting on per Material category	TOTAL PRICE PER MATERIAL CATEGORY EXCL. VAT [ZAR]
Material Category 1	10		
Material Category 2	16		
Material Category 3	5		
Material Category 4	3		
Material Category 5	16		
Material Category 6	3		
Material Category 7	5		
Material Category 8	3		
Material Category 9	1		
Material Category 10	2		
Material Category 11	2		
Material Category 12	6		
Material Category 13	6		
Material Category 14	14		
Material Category 15	6		
Material Category 16	6		
Material Category 17	27		
Material Category 18	4		
Material Category 19	5		
Material Category 20	5		
Material Category 21	3		
Material Category 22	3		
Material Category 23	8		
Material Category 24	5		
Material Category 25	10		

Respondent's Signature

Date & Company Stamp

Material Category 26	4		
Material Category 27	4		
Material Category 28	6		
Material Category 29	5		
Material Category 30	6		
Material Category 31	1		
Material Category 32	4		
Material Category 33	6		
Material Category 34	8		
Material Category 35	7		
Material Category 36	5		
Material Category 37	1		
Material Category 38	2		
Material Category 39	16		
Material Category 40	4		
Material Category 41	3		
Material Category 42	4		
Material Category 43	2		
Material Category 44	19		
Material Category 45	16		
Material Category 46	3		
Material Category 47	1		
Material Category 48	1		
Material Category 49	2		
Material Category 50	8		
Material Category 51	4		
Material Category 52	2		
Material Category 53	4		
Material Category 54	8		
Material Category 55	2		

Respondent's Signature

Date & Company Stamp

Material Category 56	2		
Material Category 57	2		
Material Category 58	3		
Material Category 59	2		
Material Category 60	7		
TOTAL PRICE, exclusive of VAT:			
VAT 15% (if applicable)			
Unconditional Discount(s)			
Total Inclusive of VAT (where applicable)			

Please complete and return Annexure E – Pricing Schedule (detailed price per item)

Bidder to note: Annexure E - Pricing Schedule will be used for evaluation purposes.

Respondents are to note that Transnet will round off final pricing scores to the nearest 2 (two) decimal places.

Trade Discount: _____ % **Settlement Discount:** _____ %

Notes to Pricing:

- a) Respondents are to note that if the price offered by the highest scoring bidder is not market-related, Transnet may not award the contract to that Respondent. Transnet may-
 - (i) negotiate a market-related price with the Respondent scoring the highest points or cancel the RFP;
 - (ii) if that Respondent does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the second highest points or cancel the RFP;
 - (iii) if the Respondent scoring the second highest points does not agree to a market-related price, negotiate a market-related price with the Respondent scoring the third highest points or cancel the RFP.

If a market-related price is not agreed with the Respondent scoring the third highest points, Transnet must cancel the RFP.
- b) Prices must be quoted in South African Rand inclusive of VAT.
- c) Any disbursement not specifically priced for will not be considered/accepted by Transnet.
- d) To facilitate like-for-like comparison bidders must submit pricing strictly in accordance with this pricing schedule and not utilise a different format. Deviation from this pricing schedule could result in a bid being declared non-responsive.
- e) Rates proposed must be aligned with the Guide on Hourly Fee Rates for Consultants” by the Department of Public Service and Administration (DPSA);

- f) Quantities given are estimates only. Any orders resulting from this RFP will be on an "as and when required" basis.
- g) Prices are to be quoted on a delivered basis to Durban, Koedoespoort and Bloemfontein.
- h) Please note that should you have offered a discounted price(s), Transnet will only consider such price discount(s) in the final evaluation stage if offered on an unconditional basis.
- i) Where a Respondent's price(s) includes imported goods/items, the rate of exchange to be used must be in South African Rands for purposes of determining whether the price is market related or not and must be the currency's rate published by the South African Reserve Bank on the date of the advertisement of the bid:
Currency rate of exchange utilised: _____
- j) In respect of incoterms conditions, if applicable, please refer to paragraph 25 of the General Bid Conditions which is attached to the RFP as Annexure B.
- k) Manufacturing and delivery lead time calculated from date of receipt of purchase order: _____ days.
- l) Respondents, if awarded the contract, are required to indicate that their prices quoted would be kept firm and fixed for the contract duration. [Not to be confused with bid validity period Section 2, clause 1]

YES	
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OR

- m) Respondents, if awarded the contract, are required to indicate that their prices quoted would be kept firm and fixed a period of 12 months, subject thereafter to adjustment (i.e. after the initial period of 12 months), utilizing the following price index/indices/adjustment formula. [Not to be confused with bid validity period Section 2, clause 1]

.....
.....

YES	
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- n) Supplier to provide Transnet with their price adjustment formulae or methodology, indicating the market economic factors that influence price movement.
- o) Price increase for variable cost should be on a twelve-month basis, except for the fuel base price which will be subject to the petroleum/paraffin price. Where there is an increase the petroleum/paraffin price Transnet, will allow an increase equivalent to that, where there is a decrease, the decrease should also be forwarded to Transnet

1. DISCLOSURE OF CONTRACT INFORMATION

PRICES TENDERED

Respondents are to note that, on award of business, Transnet is required to publish the outcome of the RFP and information of the successful Respondents *inter alia* on the National Treasury e-Tender Publication Portal, (www.etenders.gov.za), as required per National Treasury Instruction Note 09 of 2022/2023.

JOHANNESBURG STOCK EXCHANGE DEBT LISTING REQUIREMENTS

Transnet may also be required to disclose information relating to the subsequent contract i.e. the name of the company, goods/services provided by the company, the value and duration of the contract, etc. in compliance with the Johannesburg Stock Exchange (JSE) Debt Listing Requirements.

DOMESTIC PROMINENT INFLUENTIAL PERSONS (DPIP) OR FOREIGN PROMINENT PUBLIC OFFICIALS (FPPO)

Transnet is free to procure the services of any person within or outside the Republic of South Africa in accordance with applicable legislation. Transnet shall not conduct or conclude business transactions, with any Respondents without having:

- Considered relevant governance protocols;
- Determined the DPIP or FPPO status of that counterparty; and
- Conducted a risk assessment and due diligence to assess the potential risks that may be posed by the business relationship.

As per the Transnet Domestic Prominent Influential Persons (DPIP) and Foreign Prominent Public Officials (FPPO) and Related Individuals Policy available on Transnet website <https://www.transnet.net/search/pages/results.aspx?k=FPIDP#k=DPIP>, Respondents are required to disclose any commercial relationship with a DPIP or FPPO (as defined in the Policy) by completing the following section:

The below form contains personal information as defined in the Protection of Personal Information Act, 2013 (the "Act"). By completing the form, the signatory consents to the processing of her/his personal information in accordance with the requirements of the Act. Consent cannot unreasonably be withheld.						
Is the Respondent (Complete with a "Yes" or "No")						
A DPIP/FPPO		Closely Related to a DPIP/FPPO		Closely Associated to a DPIP/FPPO		
List all known business interests, in which a DPIP/FPPO may have a direct/indirect interest or significant participation or involvement.						
No	Name of Entity / Business	Role in the Entity / Business (Nature of interest/ Participation)	Shareholding %	Registration Number	Status (Mark the applicable option with an X)	
					Active	Non-Active
1						
2						
3						

Respondents declaring a commercial relationship with a DPIP or FPPO are to note that Transnet is required to annually publish on its website a list of all business contracts entered into with DPIP or FPPO. This list will include successful Respondents, if applicable.

2. PRICE REVIEW

The successful respondent(s) [the supplier/service provider] will be obliged to submit to an annual price review. Transnet will be benchmarking this price offering(s) against the lowest price received as per a benchmarking exercise. If the supplier/service provider’s price(s) is/are found to be higher than the benchmarked price(s), then the service provider shall match or better such price(s) within 30 [thirty] calendar days, failing which the contract may be terminated at Transnet’s discretion or the particular item(s) or service(s) purchased outside the contract

3. “AS AND WHEN REQUIRED” CONTRACTS

- 3.1 Purchase orders will be placed on the Supplier(s) from time to time as and when Goods/Services are required.
- 3.2 Transnet reserves the right to place purchase orders until the last day of the contract for deliveries to be effected, within the delivery period / lead time specified, beyond the expiry date of the contract under the same terms and conditions as agreed upon.
- 3.3 Delivery requirements may be stipulated in purchase orders and scheduled deliveries may be called for. However, delivery periods and maximum monthly rates of delivery offered by the Respondents will be used as guidelines in establishing lead times and monthly delivery requirements with the Supplier.
- 3.4 Where scheduled deliveries are required, the delivery period(s) specified must be strictly complied with, unless otherwise requested by Transnet. Material supplied earlier than specified may not be paid for or may be returned by Transnet, with the Supplier being held liable for all expenses so incurred, e.g. handling and transport charges.
- 3.5 If the delivery period offered by the Respondents is subject to a maximum monthly production capacity, full particulars must be indicated in Section 4 [*Pricing and Delivery Schedule*]
- 3.6 The Respondent must state hereunder its annual holiday closedown period [if applicable] and whether this period has been included in the delivery lead time offered:

- 3.7 Respondents are required to indicate below the action that the Respondent proposes to take to ensure continuity of supply during non-working days or holidays.

4. RETURN OF SURPLUS GOODS

Respondents are required to indicate whether they have a return policy in place (if so attach a copy):

YES	NO
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Respondents are required to indicate a reasonable timeframe during which Transnet may return any surplus goods: _____

5. PRE-PRODUCTION SAMPLES/PROTOTYPES

- 5.1 In this RFP, Respondents are required to provide a pre-production sample(s) or prototype(s). The Respondent should state here the time required to deliver the necessary pre-production samples(s) or prototype(s) calculated as from the date of notification of acceptance of its Proposal by Transnet:

5.2 NB: Purchase Orders will be placed on the Supplier(s) only after the date of approval of the pre-production sample(s).

5.3 State the number of days/weeks/months after which delivery would commence subject to Transnet’s approval of the pre-production sample(s) or prototype(s), calculated as from the date of such approval:

5.4 Bidders to note that the pre-production sample(s) or prototype(s) will be at their own costs.

5.5 Should the recommended bidder(s) pre-production sample(s) or prototype(s) NOT comply to the Transnet specification/requirements, then next ranked bidder will be considered for recommendation.

5.6 The recommended bidder(s) will be permitted only two attempts to submit a conforming pre-production sample or prototype for assessment and approval by Transnet.

6. MANUFACTURERS

The Respondents must state hereunder the actual manufacturer(s) of the Goods tendered for:

6.1 Local Manufacturer(s):

RFP ITEM NO.	NAME	BUSINESS ADDRESS

6.2 Foreign Manufacturer(s):

RFP ITEM NO.	NAME	BUSINESS ADDRESS

7. INSPECTION DETAILS

The Respondents must state the actual name(s) and address/addresses of the suppliers of the Goods for inspection purposes only:

7.1 Local Manufacturer(s)

RFP ITEM NO.	NAME	BUSINESS ADDRESS

7.2 Foreign Manufacturer(s):

RFP ITEM NO.	NAME	BUSINESS ADDRESS

8. IMPORTED CONTENT

The Respondents must state hereunder the value and percentage of the imported content as well as the country of origin in respect of each item tendered for:

RFP ITEM NO / DESCRIPTION.	VALUE	% COST	COUNTRY OF ORIGIN

Note: Where more than one country is applicable to one item, the Respondents must furnish this information separately.

9. EXCHANGE AND REMITTANCE

The attention of the Respondents is directed to clause 17 [*Exchange and Remittance*] of the General Bid Conditions. If Transnet is requested by the Respondent to effect payment overseas direct to the Respondent's principal or supplier, which is not a registered South African Company please complete the details below, using the rate of exchange published by the South African Reserve Bank 7 [seven] calendar days before the closing date of this RFP:

9.1 ZAR 1.00 [South African currency] being equal to _____ [*foreign currency*]

9.2 _____ % in relation to tendered price(s) to be remitted overseas by Transnet

9.3 _____ [Name of country to which payment is to be made]

9.4 Beneficiary details:

Name [Account holder] _____

Bank [Name and branch code] _____

Swift code _____

Country _____

9.5 _____ [Applicable base date of Exchange Rate used]

Respondents are advised that should a contract be awarded for deliveries on an "as and when required" basis, any future remittance(s) to overseas principals/service providers, as instructed above, will be based on an agreed rate of exchange related to the contractual price of the Goods/Services at that time.

Respondents should note that Transnet would prefer to receive fixed price offers expressed in South African Rand [ZAR].

10. EXPORT CREDIT AGENCY SUPPORTED FINANCE

In order to finance its payment obligations under a future contract where foreign transactions are involved, Transnet may consider raising debt financing [an **ECA Facility**] from one or more banks or financial institutions, with the benefit of export credit agency [**ECA**] credit support to be provided by an ECA.

Under such circumstances the successful Respondent will agree to undertake:

- a) to provide [and/or cause the Parent/OEM to provide, as applicable] to Transnet and the banks and financial institutions that may participate in the ECA Facility all such assistance as an importer of Goods and/or Services, which are eligible for ECA credit supported finance by an ECA, is generally required to provide for the purposes of obtaining ECA support;

- b) not to do or [as Supplier of the relevant eligible Goods or services] omit to do anything, which may adversely affect Transnet's prospects of qualifying for or, once obtained, maintaining ECA credit support by an ECA in respect of an ECA Facility.

All cost, expenses, charges and liabilities incurred by Transnet in establishing an ECA Facility with credit support from an Export Credit Agency, may be for the account of Transnet.

11. NATIONAL RAILWAY SAFETY REGULATOR ACT

In compliance with the National Railway Safety Regulator Act, 16 of 2002, the successful Respondent [**the Supplier**] shall ensure that the Goods to be supplied to Transnet, under the terms and conditions of a contract between the parties, comply fully with the specifications as set out in Annexure I [*Specifications and Drawings*] of this RFP, and shall also adhere to railway safety requirements and/or regulations [as applicable]. Permission for the engagement of a subcontractor by the Supplier, as applicable, both initially and during the course of a contract, shall be subject to a review of the capability of the proposed subcontractor to comply with the specified railway safety requirements and/or regulations. The Supplier and/or its subcontractor shall grant Transnet access, during the term of the contract, to review any safety-related activities, including the coordination of such activities across all parts of the organisation.

Accepted:

YES	
------------	--

NO	
-----------	--

12. SERVICE LEVELS

- 12.1 An experienced national account representative(s) is required to work with Transnet's procurement department. [No sales representatives are needed for individual department or locations]. Additionally, there shall be a minimal number of people, fully informed and accountable for this agreement.
- 12.2 Transnet will have reviews with the Supplier/Service provider's account representative on an on-going basis.
- 12.3 Transnet reserves the right to request that any member of the Supplier/Service provider's team involved on the Transnet account be replaced if deemed not to be adding value for Transnet.
- 12.4 The Service provider guarantees that it will achieve a 95% [ninety-five per cent] service level on the following measures:
- a) Random checks on compliance with quality/quantity/specifications
 - b) On-time delivery
- If the Service provider does not achieve this level as an average over each quarter, Transnet will receive a 1.5% [one and a half per cent] rebate on quarterly sales payable in the next quarter
- 12.5 The Service provider must provide a telephone number for customer service calls.
- 12.6 Failure of the Service provider to comply with stated service level requirements will give Transnet the right to cancel the contract in whole, without penalty to Transnet, giving 30 [thirty] calendar days' notice to the Service provider of its intention to do so.

Acceptance of Service Levels:

YES	
------------	--

NO	
-----------	--

13. TOTAL COST OF OWNERSHIP AND CONTINUOUS IMPROVEMENT INITIATIVES

13.1 Respondents shall indicate whether they would be committed, for the duration of any contract which may be awarded through this RFP process, to participate with Transnet in its continuous improvement initiatives to reduce the total cost of ownership [TCO], which will reduce the overall cost of transportation Goods/Services and related logistics provided by Transnet’s operating divisions within South Africa to the ultimate benefit of all end-users.

Accepted:

YES		NO	
------------	--	-----------	--

If “yes”, please specify details in paragraph 6.2 below.

13.2 Respondents must briefly describe their commitment to TCO and continuous improvement initiatives and give examples of specific areas and strategies where cost reduction initiatives can be introduced. Specific areas and proposed potential savings percentages should be included. Additional information can be appended to the Respondent’s Proposal if there is insufficient space available below.

14. RISK

Respondents must elaborate on the control measures put in place by their entity, which would mitigate the risk to Transnet pertaining to potential non-performance by the Respondent, in relation to:

14.1 Quality and specification of Goods/Services delivered:

14.2 Continuity of supply:

14.3 Compliance with the Occupational Health and Safety Act, 85 of 1993:

14.4 Compliance with the National Railway Safety Regulator Act, 16 of 2002:

SIGNED at _____ on this ____ day of _____ 20__

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____
Name _____

2 _____
Name _____

SIGNATURE OF RESPONDENT'S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

Respondent's Signature

Date & Company Stamp

SECTION 5: PROPOSAL FORM AND LIST OF RETURNABLE DOCUMENTS

I/We _____
[name of entity, company, close corporation or partnership] of *[full address]*

_____ carrying on business trading/operating as _____

represented by _____

in my capacity as _____

being duly authorised thereto by a Resolution of the Board of Directors or Members or Certificate of Partners, dated _____ to enter into, sign execute and complete any documents relating to this proposal and any subsequent Agreement. The following list of persons are hereby authorised to negotiate on behalf of the abovementioned entity, should Transnet decide to enter into Post Tender Negotiations with highest ranked bidder(s).

FULL NAME(S)	CAPACITY	SIGNATURE
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

I/We hereby offer to supply/provide the abovementioned Goods/Services at the prices quoted in the schedule of prices in accordance with the terms set forth in the documents listed in the accompanying schedule of RFP documents.

I/We agree to be bound by those conditions in Transnet’s:

- (i) Master Agreement (which may be subject to amendment at Transnet’s discretion if applicable);
- (ii) General Bid Conditions; and
- (iii) any other standard or special conditions mentioned and/or embodied in this Request for Proposal.

I/We accept that unless Transnet should otherwise decide and so inform me/us in the letter of award, this Proposal [and, if any, its covering letter and any subsequent exchange of correspondence], together with Transnet’s acceptance thereof shall constitute a binding contract between Transnet and me/us.

Should Transnet decide that a formal contract should be signed and so inform me/us in a letter of award [the **Letter of Award**], this Proposal [and, if any, its covering letter and any subsequent exchange of correspondence] together with Transnet’s Letter of Award, shall constitute a binding contract between Transnet and me/us until the formal contract is signed.

I/We further agree that if, after I/we have been notified of the acceptance of my/our Proposal, I/we fail to enter into a formal contract if called upon to do so, or fail to commence the supply/provision of Goods/Services within 2 [two] weeks thereafter, Transnet may, without prejudice to any other legal remedy which it may have, recover from me/us

 Respondent’s Signature

 Date & Company Stamp

any expense to which it may have been put in calling for Proposals afresh and/or having to accept any less favourable Proposal.

Furthermore, I/we agree to a penalty clause/s which will allow Transnet to invoke a penalty against us for non-compliance with material terms of this RFP including the delayed delivery of the Goods/Services due to non-performance by ourselves, , etc.

I/we agree that non-compliance with any of the material terms of this RFP, including those mentioned above, will constitute a material breach of contract and provide Transnet with cause for cancellation.

ADDRESS FOR NOTICES

The law of the Republic of South Africa shall govern any contract created by the acceptance of this RFP. The *domicilium citandi et executandi* shall be a place in the Republic of South Africa to be specified by the Respondent hereunder, at which all legal documents may be served on the Respondent who shall agree to submit to the jurisdiction of the courts of the Republic of South Africa. Foreign Respondents shall, therefore, state hereunder the name of their authorised representative in the Republic of South Africa who has the power of attorney to sign any contract which may have to be entered into in the event of their Proposal being accepted and to act on their behalf in all matters relating to such contract.

Respondent to indicate the details of its *domicilium citandi et executandi* hereunder:

Name of Entity:

Facsimile: _____

Address: _____

NOTIFICATION OF AWARD OF RFP

As soon as possible after approval to award the contract(s), the successful Respondent [**the Supplier/Service provider**] will be informed of the acceptance of its Proposal. Transnet will also publish the outcome of the tender, including successful and unsuccessful bidders, in the National Treasury e-tender portal. Any unsuccessful bidder has a right to request reasons for the bid not to be successful and Transnet has a duty to provide those reasons on receipt of the request from the bidder.

VALIDITY PERIOD

Transnet requires a validity period of 180 Business Days [from closing date] against this RFP, excluding the first day and including the last day.

NAME(S) AND ADDRESS / ADDRESSES OF DIRECTOR(S) OR MEMBER(S)

The Respondent must disclose hereunder the full name(s) and address(s) of the director(s) or members of the company or close corporation [**C.C.**] on whose behalf the RFP is submitted.

(i) Registration number of company / C.C. _____

(ii) Registered name of company / C.C. _____

(iii) Full name(s) of director/member(s) Address/Addresses ID Number(s)

Respondent's Signature

Date & Company Stamp

RETURNABLE DOCUMENTS

Returnable Documents means all the documents, Sections and Annexures, as listed in the tables below. There are three types of returnable documents as indicated below, and Respondents are urged to ensure that these documents are returned with their bids based on the consequences of non-submission as indicated below:

Mandatory Returnable Documents	<i>Failure to provide all these Mandatory Returnable Documents at the Closing Date and time of this RFP <u>will</u> result in a Respondent's disqualification.</i>
Returnable Documents Used for Scoring	<i>Failure to provide all Returnable Documents used for purposes of scoring a bid, by the closing date and time of this bid will not result in a Respondent's disqualification. However, Bidders will receive an automatic score of zero for the applicable evaluation criterion.</i>
Essential Returnable Documents	<i>Failure to provide essential Returnable Documents <u>will</u> result in Transnet affording Respondents a further opportunity to submit by a set deadline. Should a Respondent thereafter fail to submit the requested documents, this may result in a Respondent's disqualification.</i>

All Returnable Sections, as indicated in the header and footer of the relevant pages, must be signed, stamped and dated by the Respondent.

a) Mandatory Returnable Documents

Respondents are required to submit with their bid submissions the following **Mandatory Returnable Documents**, and also to confirm submission of these documents by so indicating [Yes or No] in the tables below:

MANDATORY RETURNABLE DOCUMENTS	SUBMITTED [Yes/No]
SECTION 4: Pricing and Delivery Schedule	
Annexure E – Pricing Schedule	
SECTION 10: Certificate of Attendance of Compulsory RFP Briefing	

b) Returnable Documents Used for Scoring

In addition to the requirements of section (a) above, Respondents are further required to submit with their Proposals the following **Returnable Documents Used for Scoring** and also to confirm submission of these documents by so indicating [Yes or No] in the table below:

<u>RETURNABLE DOCUMENTS USED FOR SCORING</u>	SUBMITTED [Yes or No]
Respondent's valid proof of evidence to claim points for compliance with Specific Goals' requirements as stipulated in Section 9 of this RFP	

RETURNABLE DOCUMENTS USED FOR SCORING	SUBMITTED [Yes or No]
Valid proof of Respondent's compliance to B-BBEE requirements stipulated in Section 9 of this RFP (Valid B-BBEE certificate or Sworn- Affidavit as per DTIC guidelines)	
B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate (in case of JV, a consolidated scorecard will be accepted) as per DTIC guideline	
Written confirmation of the initiatives to be created for Creation of new jobs and labour intensification (Bidder will be required to provide written confirmation of the initiatives to be created)	
Sub-contracting agreements and Declaration / Joint Venture Agreement and CIPC – B-BBEE Certificate / Sworn- Affidavit / B-BBEE CIPC Certificate as per DTIC guideline	
Signed OEM/OPM/Agent letter	
Technical Data Sheets	
Signed letters of reference/completion certificate/delivery note on referee letterhead with contactable contact details from different clients indicating previous experience supplying parts	
Datasheet/s showing parts that are currently being used on locomotives and details of the locomotive	
ISO 9001:2015 certificate or documented Quality Management System	
Proof of storage facility and Storage capacity documentation	
Delivery note/s with client's contact details for similar parts delivered	

c) Essential Returnable Documents:

Respondents are further required to submit the following **Essential Returnable Documents** with their RFP and to confirm submission of these documents by so indicating [Yes or No] in the table below:

CONTINUED VALIDITY OF RETURNABLE DOCUMENTS

ESSENTIAL RETURNABLE DOCUMENTS & SCHEDULES	SUBMITTED [Yes or No]
In the case of Joint Ventures, a copy of the Joint Venture Agreement or written confirmation of the intention to enter into a Joint Venture Agreement (if applicable)	
Latest Financial Statements signed by your Accounting Officer or latest Audited Financial Statements for 2 previous years	
Section 1: SBD1 Form	
Section 2: Notice to Bidders	
Section 3: Background, overview, and scope of requirements	
Section 5: Proposal Form and List of Returnable documents	
Section 6: Certificate of Acquaintance with RFP, Terms & Conditions & Applicable Documents	
Section 7: RFP Declaration and Breach of Law Form	
Section 8: RFP Clarification and Request Form	
Section 9: Specific Goals Points Claim Form	
Section 10: Certificate of Attendance of Compulsory RFP Briefing	
Section 11: Protection of Personal Information	
Valid Tax Pin	
CSD Summary Report	
Price adjustment formula (Escalation Formula)	

The successful Respondent will be required to ensure the validity of all returnable documents, for the duration of any contract emanating from this RFP. Should the Respondent be awarded the contract [**the Agreement**] and fail to present Transnet with such renewals as and when they become due, Transnet shall be entitled, in addition to any other rights and remedies that it may have in terms of the eventual Agreement, to terminate such Agreement immediately without any liability and without prejudice to any claims which Transnet may have for damages against the Respondent.

SIGNED at _____ on this ____ day of _____ 20__

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____

Name _____

2 _____

Name _____

SIGNATURE OF RESPONDENT’S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

Respondent’s Signature

Date & Company Stamp

SECTION 6: RFP DECLARATION CERTIFICATE OF ACQUAINTANCE & BREACH OF LAW FORM WITH RFP

By signing this certificate the Respondent is deemed to acknowledge that he/she has made himself/herself thoroughly familiar with, and agrees with all the conditions governing this RFP. This includes those terms and conditions contained in any printed form stated to form part hereof, including but not limited to the documents stated below. As such, Transnet SOC Ltd will recognise no claim for relief based on an allegation that the Respondent overlooked any such term or condition or failed properly to take it into account for the purpose of calculating tendered prices or any other purpose:

1	Transnet’s General Bid Conditions
2	Master Agreement and SLA attached
3	Transnet’s Supplier Integrity Pact
4	Non-disclosure Agreement
5	Specifications and drawings attached to this RFP

Note: Should a Respondent be successful and awarded the bid, they will be required to complete a Supplier Declaration Form for registration as a vendor onto the Transnet vendor master database.

Should the Bidder find any terms or conditions stipulated in any of the relevant documents quoted in the RFP unacceptable, it should indicate which conditions are unacceptable and offer alternatives by written submission on its company letterhead, attached to its submitted Bid. Any such submission shall be subject to review by Transnet’s Legal Counsel who shall determine whether the proposed alternative(s) are acceptable or otherwise, as the case may be. A material deviation from any term or condition may result in disqualification.

Bidders accept that an obligation rests on them to clarify any uncertainties regarding any bid to which they intend to respond on, before submitting the bid. **The Bidder agrees that he/she will have no claim or cause of action based on an allegation that any aspect of this RFP was unclear but in respect of which he/she failed to obtain clarity.**

The bidder understands that his/her Bid will be disqualified if the Certificate of Acquaintance with RFP documents included in the RFP as a returnable document, is found not to be true and complete in every respect.

SIGNED at _____ on this ____ day of _____ 20__

SIGNATURE OF WITNESSES

ADDRESS OF WITNESSES

1 _____
Name _____

2 _____
Name _____

SIGNATURE OF RESPONDENT’S AUTHORISED REPRESENTATIVE: _____

NAME: _____

DESIGNATION: _____

Respondent’s Signature

Date & Company Stamp

SECTION 7: RFP DECLARATION AND BREACH OF LAW FORM

We hereby certify that:

1. Transnet has supplied and we have received appropriate responses to any/all questions [as applicable] which were submitted by ourselves for RFP Clarification purposes;
2. We have received all information we deemed necessary for the completion of this Request for Proposal [**RFP**];
3. We have been provided with sufficient access to the existing Transnet facilities/sites and any and all relevant information relevant to the Goods/Services as well as Transnet information and Employees, and have had sufficient time in which to conduct and perform a thorough due diligence of Transnet's operations and business requirements and assets used by Transnet. Transnet will therefore not consider or permit any pre- or post-contract verification or any related adjustment to pricing, service levels or any other provisions/conditions based on any incorrect assumptions made by the Respondent in arriving at his Bid Price.
4. At no stage have we received additional information relating to the subject matter of this RFP from Transnet sources, other than information formally received from the designated Transnet contact(s) as nominated in the RFP documents;
5. We are satisfied, insofar as our entity is concerned, that the processes and procedures adopted by Transnet in issuing this RFP and the requirements requested from Bidders in responding to this RFP have been conducted in a fair and transparent manner;
6. We have complied with all obligations of the Bidder/Supplier as indicated in the Transnet Supplier Integrity which includes but are not limited to ensuring that we take all measures necessary to prevent corrupt practices, unfairness and illegal activities in order to secure or in furtherance to secure a contract with Transnet;
7. we declare that an owner / member / director / partner / shareholder/employee of our entity **has / has not been** [delete as applicable] a former employee or board member of Transnet in the past 10 years. I further declare that if they were a former employee or board member of Transnet in the past 10 years that they **were/were not** involved in the bid preparation or had access to the information related to this RFP; and
8. If such a relationship as indicated in paragraph 7, exists, the Respondent is to complete the following section:

FULL NAME OF OWNER/MEMBER/DIRECTOR/
PARTNER/SHAREHOLDER/EMPLOYEE:

ADDRESS:

Indicate nature of relationship with Transnet:

[Failure to furnish complete and accurate information in this regard will lead to the disqualification of a response and may preclude a Respondent from doing future business with Transnet. Information provided in the declarations may be used by Transnet and/or its affiliates to verify the correctness of the information provided]

9. We declare, to the extent that we are aware or become aware of any relationship between ourselves and Transnet [other than any existing and appropriate business relationship with Transnet] which could unfairly advantage our entity in the forthcoming adjudication process, we shall notify Transnet immediately in writing of such circumstances.

BIDDER'S DISCLOSURE (SBD4)

12 PURPOSE OF THE FORM

12.1 Any person (natural or juristic) may make an offer or offers in terms of this invitation to bid. In line with the principles of transparency, accountability, impartiality, and ethics as enshrined in the Constitution of the Republic of South Africa and further expressed in various pieces of legislation, it is required for the bidder to make this declaration in respect of the details required hereunder.

12.2 Where a person/s are listed in the Register for Tender Defaulters and / or the List of Restricted Suppliers, that person will automatically be disqualified from the bid process.

13 Bidder's declaration

13.1 Is the bidder, or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest² in the enterprise, employed by the state?

YES/NO

13.1.1. If so, furnish particulars of the names, individual identity numbers, and, if applicable, state employee numbers of sole proprietor/ directors / trustees / shareholders / members/ partners or any person having a controlling interest in the enterprise, in table below.

Full Name	Identity Number	Name of State institution

13.2 Do you, or any person connected with the bidder, have a relationship with any person who is employed by the procuring institution?

YES/NO

13.2.1. If so, furnish particulars:

² the power, by one person or a group of persons holding the majority of the equity of an enterprise, alternatively, the person/s having the deciding vote or power to influence or to direct the course and decisions of the enterprise.

.....
.....

13.3 Does the bidder or any of its directors / trustees / shareholders / members / partners or any person having a controlling interest in the enterprise have any interest in any other related enterprise whether or not they are bidding for this contract?

YES/NO

13.3.1. If so, furnish particulars:

.....
.....

14 DECLARATION

I, the undersigned, (name)..... in submitting the accompanying bid, do hereby make the following statements that I certify to be true and complete in every respect:

14.1 I have read and I understand the contents of this disclosure;

14.2 I understand that the accompanying bid will be disqualified if this disclosure is found not to be true and complete in every respect;

14.3 The bidder has arrived at the accompanying bid independently from, and without consultation, communication, agreement or arrangement with any competitor. However, communication between partners in a joint venture or consortium³ will not be construed as collusive bidding.

14.4 In addition, there have been no consultations, communications, agreements or arrangements with any competitor regarding the quality, quantity, specifications, prices, including methods, factors or formulas used to calculate prices, market allocation, the intention or decision to submit or not to submit the bid, bidding with the intention not to win the bid and conditions or delivery particulars of the products or services to which this bid invitation relates.

14.5 The terms of the accompanying bid have not been, and will not be, disclosed by the bidder, directly or indirectly, to any competitor, prior to the date and time of the official bid opening or of the awarding of the contract.

14.6 There have been no consultations, communications, agreements or arrangements made by the bidder with any official of the procuring institution in relation to this procurement process prior to and during the bidding process except to provide clarification on the bid submitted where so required by the institution; and the bidder was not involved in the drafting of the specifications or terms of reference for this bid.

14.7 I am aware that, in addition and without prejudice to any other remedy provided to combat any restrictive practices related to bids and contracts, bids that are suspicious will be reported to the Competition Commission for investigation and possible imposition of administrative penalties in terms of section 59

³ Joint venture or Consortium means an association of persons for the purpose of combining their expertise, property, capital, efforts, skill and knowledge in an activity for the execution of a contract.

of the Competition Act No 89 of 1998 and or may be reported to the National Prosecuting Authority (NPA) for criminal investigation and or may be restricted from conducting business with the public sector for a period not exceeding ten (10) years in terms of the Prevention and Combating of Corrupt Activities Act No 12 of 2004 or any other applicable legislation.

I CERTIFY THAT THE INFORMATION FURNISHED IN PARAGRAPHS 12, 13 and 14 ABOVE IS CORRECT.

I ACCEPT THAT THE STATE MAY REJECT THE BID OR ACT AGAINST ME IN TERMS OF PARAGRAPH 6 OF PFMA SCM INSTRUCTION 03 OF 2021/22 ON PREVENTING AND COMBATING ABUSE IN THE SUPPLY CHAIN MANAGEMENT SYSTEM SHOULD THIS DECLARATION PROVE TO BE FALSE.

BREACH OF LAW

We further hereby certify that *I/we* (the bidding entity and/or any of its directors, members or partners) **have/have not been** [delete as applicable] found guilty during the preceding 5 [five] years of a serious breach of law, including but not limited to a breach of the Competition Act, 89 of 1998, by a court of law, tribunal or other administrative body. The type of breach that the Respondent is required to disclose excludes relatively minor offences or misdemeanours, e.g. traffic offences. This includes the imposition of an administrative fine or penalty.

Where found guilty of such a serious breach, please disclose:

NATURE OF BREACH:

DATE OF BREACH: _____

Furthermore, I/we acknowledge that Transnet SOC Ltd reserves the right to exclude any Respondent from the bidding process, should that person or entity have been found guilty of a serious breach of law, tribunal or regulatory obligation.

SIGNED at _____ on this ____ day of _____ 20__

For and on behalf of _____	AS WITNESS:
duly authorised hereto	
Name:	Name:
Position:	Position:
Signature:	Signature:
Date:	Registration No of Company/CC
Place:	Registration Name of Company/CC

SECTION 9: SPECIFIC GOALS POINTS CLAIM FORM

This preference form must form part of all bids invited. It contains general information and serves as a claim for preference points for specific goals Contribution. Transnet will award preference points to companies who provide valid proof of evidence of as per the table below.

NB: BEFORE COMPLETING THIS FORM, BIDDERS MUST STUDY THE GENERAL CONDITIONS, DEFINITIONS AND DIRECTIVES APPLICABLE IN RESPECT OF SPECIFIC GOALS, AS PRESCRIBED IN THE PREFERENTIAL PROCUREMENT POLICY FRAMEWORK ACT, 2000.

1. GENERAL CONDITIONS

1.1 The following preference point systems are applicable to all bids:

- the 80/20 system for requirements with a Rand value of up to R50 000 000 (all applicable taxes included); and
- the 90/10 system for requirements with a Rand value above R50 000 000 (all applicable taxes included).

1.2 The value of this bid is estimated to exceed R50 000 000 (all applicable taxes included) and therefore the 90/10 preference point system shall be applicable. Despite the stipulated preference point system, Transnet shall use the lowest acceptable bid to determine the applicable preference point system in a situation where all received acceptable bids are received outside the stated preference point system.

1.3 Preference points for this bid shall be awarded for:

- (a) Price;
- (b) B-BBEE Status Level of Contribution; and
- (c) Any other specific goal determined in Transnet preferential procurement policy.

1.4 The maximum points for this bid are allocated as follows:

	POINTS
PRICE	90
SPECIFIC GOALS	10
B-BBEE Level of contributor – Level 1 or Level 2	(2)
Sub-Contracting to South African entities which are:	(3)
I. HDI's – Women, Youth and people with disabilities	
II. Entities with a specified minimum BBBEE level 1	
III. EME's and/or QSE's black-owned	
Creation of new jobs and labour intensification from the local communities/Region where the work is to be done	(5)
Non-Compliant and/or B-BBEE Level 3-8 contributors	(0)
Total points for Price and Specific Goals must not exceed	100

1.5 Failure on the part of a bidder to submit proof of evidence for any of the specific goals together with the bid will be interpreted to mean that preference points are not claimed.

1.6 The purchaser reserves the right to require of a bidder, either before a bid is adjudicated or at any time subsequently, to substantiate any claim in regard to preferences, in any manner required by the purchaser.

2. DEFINITIONS

- (a) **"all applicable taxes"** includes value-added tax, pay as you earn, income tax, unemployment insurance fund contributions and skills development levies;
- (b) **"B-BBEE"** means broad-based black economic empowerment as defined in section 1 of the Broad-Based Black Economic Empowerment Act;
- (c) **"B-BBEE status level of contributor"** means the B-BBEE status received by a measured entity based on its overall performance using the relevant scorecard contained in the Codes of Good Practice on Black Economic Empowerment, issued in terms of section 9(1) of the Broad-Based Black Economic Empowerment Act;
- (d) **"Ownership"** means 51% black ownership
- (e) **"bid"** means a written offer in a prescribed or stipulated form in response to an invitation by an organ of state for the supply/provision of services, works or goods, through price quotations, advertised competitive bidding processes or proposals;
- (f) **"Broad-Based Black Economic Empowerment Act"** means the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (g) **"EME"** means an Exempted Micro Enterprise as defines by Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (h) **"functionality"** means the ability of a bidder to provide goods or services in accordance with specification as set out in the bid documents
- (i) **"Price"** includes all applicable taxes less all unconditional discounts.
- (j) **"Proof of B-BBEE Status Level of Contributor"**
- i) the B-BBEE status level certificate issued by an authorised body or person;
 - ii) a sworn affidavit as prescribed by the B-BBEE Codes of Good Practice; or
 - iii) any other requirement prescribed in terms of the B-BBEE Act.
- (k) **"QSE"** means a Qualifying Small Enterprise as defines by Codes of Good Practice under section 9 (1) of the Broad-Based Black Economic Empowerment Act, 2003 (Act No. 53 of 2003);
- (l) **"rand value"** means the total estimated value of a contract in South African currency, calculated at the time of bid invitations, and includes all applicable taxes and excise duties.
- (m) **"Specific goals"** means targeted advancement areas or categories of persons or groups either previously disadvantaged or falling within the scope of the Reconstruction and Development Programme identified by Transnet to be given preference in allocation of procurement contracts in line with section 2(1) of the PPPFA.

3. POINTS AWARDED FOR PRICE

3.1 THE 90/10 PREFERENCE POINT SYSTEMS

A maximum of 90 points is allocated for price on the following basis:

90/10

$$P_s = 90 \left(1 - \frac{P_t - P_{\min}}{P_{\min}} \right)$$

Where

- Ps = Points scored for comparative price of bid under consideration
- Pt = Comparative price of bid under consideration
- Pmin = Comparative price of lowest acceptable bid

In terms of Transnet Preferential Procurement Policy (TPPP) and Procurement Manuals, the following preference points must be awarded to a bidder who provides the relevant required evidence for claiming points

Selected Specific Goal	Number of points allocated (10)
B-BBEE Level of contributor – Level 1 or Level 2	2
Sub-Contracting to South African entities which are: I. HDI's – Women, Youth and people with disabilities II. Entities with a specified minimum BBEE level 1 III. EME's and/or QSE's black-owned	3
Creation of new jobs and labour intensification from the local communities/Region where the work is to be done	5
Non-Compliant and/or B-BBEE Level 3-8 contributors	0

4. EVIDENCE REQUIRED FOR CLAIMING SPECIFIC GOALS

4.1 In terms of Transnet Preferential Procurement Policy (TPPP) and Procurement Manuals, preference points must be awarded to a bidder for providing evidence in accordance with the table below:

Specific Goals	Acceptable Evidence
B-BBEE Level of contributor – Level 1 or Level 2	B-BBEE Certificate / Sworn-Affidavit B-BBEE Certificate (in case of JV, a consolidate scorecard will be accept) as per DTIC guidelines
Sub-Contracting to South African entities which are: I. HDI's – Women, Youth and people with disabilities II. Entities with a specified minimum BBEE level 1 and III. EME's and/or QSE's black-owned	Sub-contracting agreements and Declaration / Joint Venture Agreement. Certified copy of ID Documents of the Owners and B-BBEE Certificate / Affidavit (in case of JV, a consolidate scorecard will be accepted) of the sub-contracted entities.
Creation of new jobs and labour intensification from the local communities/Region where the work is to be done	Bidder will be required to provide written confirmation of the initiatives to be created.

4.2 The table below indicates the required proof of B-BBEE status depending on the category of enterprises:

Enterprise	B-BBEE Certificate & Sworn Affidavit
Large	Certificate issued by SANAS accredited verification agency
QSE	Certificate issued by SANAS accredited verification agency Sworn Affidavit signed by the authorised QSE representative and attested by a Commissioner of Oaths confirming annual turnover and black ownership (only black-owned QSEs - 51% to 100% Black owned) [Sworn affidavits must substantially comply with the format that can be obtained on the DTI's website at www.dti.gov.za/economic_empowerment/bee_codes.jsp .]
EME⁴	Sworn Affidavit signed by the authorised EME representative and attested by a Commissioner of Oaths confirming annual turnover and black ownership Certificate issued by CIPC (formerly CIPRO) confirming annual turnover and black ownership Certificate issued by SANAS accredited verification agency only if the EME is being measured on the QSE scorecard

- 4.3 A trust, consortium or joint venture (including unincorporated consortia and joint ventures) must submit a consolidated B-BBEE Status Level verification certificate for every separate bid.
- 4.4 Tertiary Institutions and Public Entities will be required to submit their B-BBEE status level certificates in terms of the specialized scorecard contained in the B-BBEE Codes of Good Practice.
- 4.5 A person will not be awarded points for B-BBEE status level if it is indicated in the bid documents that such a bidder intends sub-contracting more than 25% of the value of the contract to any other enterprise that does not qualify for at least the points that such a bidder qualifies for, unless the intended sub-contractor is an EME that has the capability and ability to execute the sub-contract.

5. TRANSFORMATIONAL OBLIGATIONS

Transformational Obligations constitute contractual conditions and will apply to the awarded bidder(s) regardless of whether points were obtained for Specific Goals. These obligations may be negotiated and strengthened during the contracting or implementation stages to maximize transformational outcomes, and therefore they do not duplicate the scoring of Specific Goals

The below transformational obligations will not be used for scoring purposes; however, they will form part of the contract

Transformational Obligations	Requirements
Sub-contracting	Components that are available locally can be sub-contracted to, this will ensure a quicker turnaround time. Successful bidder is encouraged to subcontract a certain portion of the contract to empower Local suppliers where they will be operating.
Job Creation Initiative.	The Government has identified State Owned Enterprise sourcing activities as a key enabler to achieve the National Development Plan (NDP) objective of reducing unemployment from the current baseline of 28% to 6%. In order to give effect to these job creation objectives, Respondents are required to provide the undertaking of the new jobs that will be created (either by them or by the subcontractors) should they be awarded this bid. Bidder will be required to provide written confirmation on the number of jobs to be created to Black Women, Black Youth and Black People living with disabilities.
Localized manufacturing	Local manufacturing and assembling of critical locomotives parts is encouraged through this initiative. This includes but is not limited to components which are designated for local content
NIPP (National Industrial Participation Programme)	The NIPP programme is mandatory on all government and parastatal purchases or lease contracts (goods and services) with an imported content equal to or exceeding US\$ 5 million.

6. BID DECLARATION

6.1 Bidders who claim points in respect of B-BBEE Status Level of Contribution must complete the following:

7. B-BBEE STATUS LEVEL OF CONTRIBUTION CLAIMED

7.1 B-BBEE Status Level of Contribution: =(maximum of 2 points)
(Points claimed in respect of paragraph 6.1 must be in accordance with the table reflected in paragraph 4.1 and must be substantiated by relevant proof of B-BBEE status level of contributor.

8. SUB-CONTRACTING

8.1 Will any portion of the contract be sub-contracted?

(*Tick applicable box*)

YES		NO	
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8.1.1 If yes, indicate:

- i) What percentage of the contract will be subcontracted.....%
- ii) The name of the sub-contractor.....
- iii) The B-BBEE status level of the sub-contractor.....
- iv) Whether the sub-contractor is an EME or QSE.

(Tick applicable box)

YES		NO	
-----	--	----	--

v) Specify, by ticking the appropriate box, if subcontracting with any of the following enterprises:

: An EME or QSE which is at last 51% owned by:	EME ✓	QSE ✓
Black people		
Black people who are youth		
Black people who are women		
Black people with disabilities		
Black people living in rural or underdeveloped areas or townships		
Cooperative owned by black people		
Black people who are military veterans		
OR		
Any EME		
Any QSE		

9. DECLARATION WITH REGARD TO COMPANY/FIRM

9.1 Name of company/firm:.....

9.2 VAT registration number:.....

9.3 Company registration number:.....

9.4 TYPE OF COMPANY/ FIRM

- Y Partnership/Joint Venture / Consortium
- Y One person business/sole propriety
- Y Close corporation
- Y Company
- Y (Pty) Limited
- [TICK APPLICABLE BOX]

9.5 DESCRIBE PRINCIPAL BUSINESS ACTIVITIES

.....

.....

9.6 COMPANY CLASSIFICATION

- Y Manufacturer
- Y Supplier
- Y Professional Supplier/Service provider
- Y Other Suppliers/Service providers, e.g. transporter, etc.
- [TICK APPLICABLE BOX]

9.7 Total number of years the company/firm has been in business:.....

9.8 I/we, the undersigned, who is / are duly authorised to do so on behalf of the company/firm, certify that the points claimed, based on the B-BBE status level of contribution of the foregoing certificate, qualifies the company/ firm for the preference(s) shown and I / we acknowledge that:

- i) The information furnished is true and correct;
- ii) The preference points claimed are in accordance with the General Conditions as indicated in paragraph 1 of this form;
- iii) In the event of a contract being awarded as a result of points claimed as shown in paragraph 1.4 and 6.1, the contractor may be required to furnish documentary proof to the satisfaction of the purchaser that the claims are correct;
- iv) If a bidder submitted false information regarding its B-BBEE status level of contributor or any other matter required in terms of the Preferential Procurement Regulations, 2022 which will affect or has affected the evaluation of a bid the purchaser may, in addition to any other remedy it may have
 - (a) disqualify the person from the bidding process;
 - (b) recover costs, losses or damages it has incurred or suffered as a result of that person’s conduct;
 - (c) cancel the contract and claim any damages which it has suffered as a result of having to make less favourable arrangements due to such cancellation;
 - (d) if the successful bidder subcontracted a portion of the bid to another person without disclosing it, Transnet reserves the right to penalise the bidder up to 10 percent of the value of the contract;
 - (e) recommend that the bidder or contractor, its shareholders and directors, or only the shareholders and directors who acted on a fraudulent basis, be restricted by the National Treasury from obtaining business from any organ of state for a period not exceeding 10 years, after the audi alteram partem (hear the other side) rule has been applied; and
 - (f) forward the matter for criminal prosecution.

<p>WITNESSES</p> <p>1.</p> <p>2.</p>

<p>.....</p> <p>SIGNATURE(S) OF BIDDERS(S)</p> <p>DATE:</p> <p>ADDRESS</p>

SECTION 10: CERTIFICATE OF ATTENDANCE OF COMPULSORY RFP BRIEFING

It is hereby certified that –

1. _____

2. _____

Representative(s) of _____ *[name of entity]*
attended the RFP briefing in respect of the proposed Goods/Services to be rendered in terms of this RFP on
_____ 20__

TRANSNET’S REPRESENTATIVE

RESPONDENT’S REPRESENTATIVE

DATE _____

DATE _____

EMAIL _____

NOTE:

This certificate of attendance must be filled in duplicate, one copy to be kept by Transnet and the other copy to be kept by the bidder.

SECTION 11: PROTECTION OF PERSONAL INFORMATION

1. The following terms shall bear the same meaning as contemplated in Section 1 of the Protection of Person information act, No.4 of 2013.(“POPIA”):

consent; data subject; electronic communication; information officer; operator; person; personal information; processing; record; Regulator; responsible party; special information; as well as any terms derived from these terms.
2. Transnet will process all information by the Respondent in terms of the requirements contemplated in Section 4(1) of the POPIA:

Accountability; Processing limitation; Purpose specification; Further processing limitation; Information quality; Openness; Security safeguards and Data subject participation.
3. The Parties acknowledge and agree that, in relation to personal information that will be processed pursuant to this RFP, the Responsible party is “Transnet” and the Data subject is the “Respondent”. Transnet will process personal information only with the knowledge and authorisation of the Respondent and will treat personal information which comes to its knowledge as confidential and will not disclose it, unless so required by law or subject to the exceptions contained in the POPIA.
4. Transnet reserves all the rights afforded to it by the POPIA in the processing of any of its information as contained in this RFP and the Respondent is required to comply with all prescripts as detailed in the POPIA relating to all information concerning Transnet.
5. In responding to this bid, Transnet acknowledges that it will obtain and have access to personal information of the Respondent. Transnet agrees that it shall only process the information disclosed by Respondent in their response to this bid for the purpose of evaluating and subsequent award of business and in accordance with any applicable law.
6. Transnet further agrees that in submitting any information or documentation requested in this RFP, the Respondent is consenting to the further processing of their personal information for the purpose of, but not limited to, risk assessment, assurances, contract award, contract management, auditing, legal opinions/litigations, investigations (if applicable), document storage for the legislatively required period, destruction, de-identification and publishing of personal information by Transnet and/or its authorised appointed third parties.
7. Furthermore, Transnet will not otherwise modify, amend or alter any personal data submitted by the Respondent or disclose or permit the disclosure of any personal data to any third party without the prior written consent from the Respondent. Similarly, Transnet requires the Respondent to process any personal information disclosed by Transnet in the bidding process in the same manner.
8. Transnet shall, at all times, ensure compliance with any applicable laws put in place and maintain sufficient measures, policies and systems to manage and secure against all forms of risks to any information that may be shared or accessed pursuant to this RFP (physically, through a computer or any other form of electronic communication).
9. Transnet shall notify the Respondent in writing of any unauthorised access to information, cybercrimes or suspected cybercrimes, in its knowledge and report such crimes or suspected crimes to the relevant authorities in

accordance with applicable laws, after becoming aware of such crimes or suspected crime. The Respondent must take all necessary remedial steps to mitigate the extent of the loss or compromise of personal information and to restore the integrity of the affected personal information as quickly as is possible.

10. The Respondent may, in writing, request Transnet to confirm and/or make available any personal information in its possession in relation to the Respondent and if such personal information has been accessed by third parties and the identity thereof in terms of the POPIA. The Respondent may further request that Transnet correct (excluding critical/mandatory or evaluation information), delete, destroy, withdraw consent or object to the processing of any personal information relating to the Respondent in Transnet's possession in terms of the provision of the POPIA and utilizing Form 2 of the POPIA Regulations.
11. In submitting any information or documentation requested in this RFP, the Respondent is hereby consenting to the processing of their personal information for the purpose of this RFP and further confirming that they are aware of their rights in terms of Section 5 of POPIA

Respondents are required to provide consent below:

YES		NO	
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12. Further, the Respondent declares that they have obtained all consents pertaining to other data subject's personal information included in its submission and thereby indemnifying Transnet against any civil or criminal action, administrative fines or other penalty or loss that may arise as a result of the processing of any personal information that the Respondent submitted.
13. The Respondent declares that the personal information submitted for the purpose of this RFP is complete, accurate, not misleading, is up to date and may be updated where applicable.

Signature of Respondent's authorised representative: _____

Should a Respondent have any complaints or objections to processing of its personal information, by Transnet, the Respondent can submit a complaint to the Information Regulator on <https://www.justice.gov.za/inforeg/>, click on contact us, click on complaints.IR@justice.gov.za