TENDER REFRENCE NUMBER: CTIA7795/2025/RFP

AIRPORTS COMPANY SOUTH AFRICA SOC LIMITED

TITLE OF PROJECT: MAINTENANCE AND MINOR REFURBISHMENT OF MECHANICAL CONVEYOR MACHINERY FOR BAGGAGE HANDLING SYSTEM AT CTIA FOR THE PERIOD OF 5 YEARS

NEC 3: TERM SERVICE CONTRACT (TSC)

Between	**AIRPORTS COMPANY SOUTH AFRICA SOC LIMITED**
	Applicable at CAPE TOWN INTERNATIONAL AIRPORT
	(Registration Number: 1993/004149/30)
and	……
	(Registration Number: ……)
for	**MAINTENANCE AND MINOR REFURBISHMENT OF MECHANICAL CONVEYOR MACHINERY FOR BAGGAGE HANDLING SYSTEM AT CTIA FOR THE PERIOD OF 5 YEARS**

Contents:

PART C1: AGREEMENT AND CONTRACT DATA

C1.1 Form of Offer and Acceptance

Offer

The employer, identified in the acceptance signature block, wishes to enter into a contract for **MAINTENANCE AND MINOR REFURBISHMENT OF MECHANICAL CONVEYOR MACHINERY FOR BAGGAGE HANDLING SYSTEM AT CTIA FOR THE PERIOD OF 5 YEARS**

The contractor, identified in the offer signature block, has examined this document and addenda hereto as listed in the schedules, and by submitting this offer has accepted the conditions thereof.

By the representative of the contractor, deemed to be duly authorised, signing this part of this form of offer and acceptance, the contractor offers to perform all of the obligations and liabilities of the Contractor under the contract including compliance with all its terms and conditions according to their true intent and meaning for an amount to be determined in accordance with the Conditions of Contract identified in the Contract Data.

THE OFFERED TOTAL OF THE PRICES INCLUSIVE OF VAT IS :

The offered total of the Prices exclusive of VAT is	**R**
Value Added Tax @ 15% is	**R**
The offered total of the Prices inclusive of VAT is	**R**
In words	

Please complete in figures and in words

(The above amount should be calculated as per the guide provided in the Activity Schedule. In the event of any conflict between the amount above and the Activity Schedule, the latter shall prevail.)

For the contractor

Signature . . . . Date . . . .

Name . . . . Capacity . . . .

(Name and address of organisation) . . . .

. . . .

. . . .

Name and signature of witness . . . .

This offer may be accepted by the employer by signing the acceptance part of this form of offer and acceptance and returning one copy of this document to the tenderer before the end of the period of validity stated in the tender data, whereupon the tenderer becomes the party named as the contractor in the conditions of contract identified in the contract data.

Acceptance

By signing this part of this form of offer and acceptance, the employer identified below accepts the contractor's offer. In consideration thereof, the employer shall pay the contractor the amount due in accordance with the conditions of contract identified in the contract data. Acceptance of the contractor's offer shall form an agreement between the employer and the contractor upon the terms and conditions contained in this agreement and in the contract that is the subject of this agreement.

The terms of the contract, are contained in:

Part C1: Agreements and contract data, (which includes this agreement)
Part C2: Pricing data and Price List
Part C3 : Service information.
Part C4 : Site information

Deviations from and amendments to the documents listed in the tender data and any addenda thereto as listed in the tender schedules as well as any changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance, are contained in the schedule of deviations attached to and forming part of this agreement. No amendments to or deviations from said documents are valid unless contained in this schedule.

The contractor shall within two weeks after receiving a completed copy of this agreement, including the schedule of deviations (if any), contact the Service manager (to be confirmed) to arrange the delivery of any bonds, guarantees, proof of insurance and any other documentation to be provided in terms of the conditions of contract identified in the contract data. Failure to fulfil any of these obligations in accordance with those terms shall constitute a repudiation of this agreement.

Notwithstanding anything contained herein, this agreement comes into effect on the date when the tenderer receives one fully completed original copy of this document, including the schedule of deviations (if any). Unless the tenderer (now contractor) within five working days of the date of such receipt notifies the employer in writing of any reason why he cannot accept the contents of this agreement, this agreement shall constitute a binding contract between the parties.

For the Employer

Signature . . . . Date . . . .

Name . . . . Capacity . . . .

Airports Company South Africa,
Cape Town International Airport
Southern Office Block, Administration Building
7525

Name and signature of witness . . . .

Schedule of Deviations

1 Subject . . . . . .

Details . . . . . .

. . . . . .

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2 Subject . . . . . .

Details . . . . . .

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3 Subject . . . . . .

Details . . . . . .

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4 Subject . . . . . .

Details . . . . . .

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5 Subject . . . . . .

Details . . . . . .

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By the duly authorised representatives signing this agreement, the employer and the contractor agree to and accept the foregoing schedule of deviations as the only deviations from and amendments to the documents listed in the tender data and addenda thereto as listed in the tender schedules, as well as any confirmation, clarification or changes to the terms of the offer agreed by the tenderer and the employer during this process of offer and acceptance.

It is expressly agreed that no other matter whether in writing, oral communication or implied during the period between the issue of the tender documents and the receipt by the tenderer of a completed signed copy of this Agreement shall have any meaning or effect in the contract between the parties arising from this agreement.

	For the Employer	**For the Contractor**
Signature (s)		
Name (s)		
Capacity		
Name and Address	Airports Company South Africa (ACSA) SOC, Cape Town International Airport, Private Bag X9002, Cape Town, 7525	
Name & Signature of witness		
Date		

C1.2 Contract Data

Part one - Data provided by the *Employer*

Clause	Statement	Data
1	**General**	
	The *conditions of contract* are the core clauses and the clauses for main Option:	
		A: Priced contract with price list
	dispute resolution Option:	**W1: Dispute resolution procedure**
	and secondary Options:	
		X1 Price Adjustment for inflation
		X2 Changes in the law
		X7 Delay Damages
		X17 Low Service damages
		X18: Limitation of Liability (as amended in Option Z)
		X19: Task Order
		X20: Key Performance
		Z: Additional conditions of contract
	of the NEC3 Term Service Contract (April 2013)	
10.1	The *Employer* is (Name):	**Airports Company South Africa SOC Limited**
	Address	Cape Town International Airport Southern Office Block, Administration Building 7525
10.1	The *Service Manager* is:	Thulani Vanqa
11.2(1)	The *Accepted Plan* is	**Included in Part C3 of this document, including Annexes thereto as submitted by the Contractor and accepted by the Service Manager.**
11.2(2)	The *Affected Property* is	Cape Town International Airport
11.2(13)	The *Service* is	**MAINTENANCE AND MINOR REFURBISHMENT OF MECHANICAL CONVEYOR MACHINERY FOR BAGGAGE HANDLING SYSTEM AT CTIA FOR THE PERIOD OF 5 YEARS** and all its related components, **as set out in part C3 *service information*.**
11.2(14)	The following matters will be included in the Risk Register	OHS Act and New Construction Regulation compliance.

11.2(15)	The *Service Information* is in	**The section titled Service Information included as Part C3 of this document.**
12.2	The *law of the contract* is the law of	**The Republic of South Africa**
13.1	The *language of this contract* is	**English**
13.3	The *period for reply* is	**7 working days**
21.1	The period within which the Contractor provides the Contractor's Plan	**30 calendar days from Contract Date**

2	**The Contractor's main responsibilities**	**Detailed in Part C3 (Service Information)**
3	**Time**	
30.1	The *starting date* is	**Upon the date of signature of the contract by ACSA**
30.2	The *Service Period* is	**For a period not exceeding 5 years from the *date the contract is signed by ACSA.***
4	**Testing and Defects**	**No data is required for this section of the *conditions of contract***
5	**Payment**	
50.1	The *assessment interval* is on the	**Two (2) weeks**
51.1	The *currency of this contract* is the	**South African Rand (ZAR)**
51.2	The period within which payments are made is	**30 days**
51.4	The *interest rate* is	**The prime lending rate of the Nedbank Bank, as determined from time to time.**
6	**Compensation events**	**No data is required for this section of the *conditions of contract.***
7	**Title**	**No data is required for this section of the *conditions of contract.***
8	**Risks and insurance**	**Refer to Part C1.4**
83.2	The minimum amounts of cover or minimum limits of indemnity required for the insurance table	**Refer to Part C1.4**

9	**Termination**	**No data is required for this section of the *conditions of contract.***
10	**Data for main Option clause**	
A	**Priced contract with price list**	**Refer to Part C2**
11	**Data for Option W1**	
W1.1	The Adjudicator is	**The person appointed jointly by the parties from the list of adjudicators contained below**
W1.2	The Adjudicator nominating body is	**The current Chairman of Johannesburg Advocate's Bar Council**
W1.4	The tribunal is	**Arbitration**
W1.4	If the tribunal is arbitration, the arbitration procedure is	**The arbitration procedure is set out in The Rules for the Conduct of Arbitrations 2013 Edition, 7th Edition, published by The Association of Arbitrators, (Southern Africa)**
W1.4	The place where arbitration is to be held is	**Johannesburg, South Africa.**
W1.4	The person or organization who will choose an arbitrator	**The Arbitrator is the person selected by the Parties as and when a dispute arises in terms of the relevant Z Clause, from the Panel of Arbitrators provided under the relevant Z clause if the arbitration procedure does not state who selects an arbitrator. The Arbitrator nominating body is the Chairman of the Johannesburg Advocates Bar Council.**
12	**Data for secondary Option**	
X1	**Price Adjustment for inflation**	**The index referred to in this clause shall be deemed to refer to the CPI index on the *starting date* as stated under section 30.1. Price adjustment for inflation shall only take place on contract anniversary**
X2	**Changes in the law**	**No data is required for this secondary option.**
X7	**Delay Damages**	**As per the Service Information (C3)**
X17	**Low Service damages**	
		If the Contractor produces substandard work the Employer can **-insist the Contractor to corrects the Defects to provide the quality specified in the service information** **-recover the cost of having it corrected by other people if the Contractor fails to correct the Defect within the specified time or** **- accept the Defect and a quotation from the Contractor for reduced Prices in return for a change to the service information**

X18	**Limitation of liability**	
X18.1	The Contractor's liability to the Employer for indirect or consequential loss is limited to	**Nil - Neither Party is liable to the other for any consequential or indirect loss, including but not limited to loss of profit, loss of income or loss of revenue**
X18.2	For any one event, the Contractor's liability to the Employer for loss of or damage to the Employer's property is limited to	**The Total liability incurred and/or damages suffered to the Employer's Property**
X18.3	The Contractor's total liability to the Employer for defects due to his design which are not listed on the Defects Certificate is limited to	**The Total liability incurred and/or damages suffered to the Employer's Property**
X18.4	The Contractor's total liability to the Employer for all matters arising under or in connection with this contract, other than excluded matters, is limited to	**The Total of The Prices**
X19	**Task Order**	
		This Option can be used when all the services to be provided under the contract are to be instructed by Task Order, or when other services are being provided under the contract, and Tasks are added as necessary. For example, Ad hoc works
X20	**Key Performance Indicators**	
X20.1 to X20.5		**Key Performance Indicators (KPIs) are being increasingly used as a means of improving efficiency and encouraging better performance by contractors with a view to continues improvement. KPIs are provided for in Option X12 where partnering arrangements are in place. This Option X20 can be used when Option X12 is not used. The procedure in Option X20 requires the establishment of performance targets and regular reporting by the Contractor of his performance measured against the KPIs.**

Z	**The *Additional conditions of contract* are**
	Amendments to the Core Clauses
Z1	Interpretation of the law
Z1.1	**Add to core clause 12.3:** Any extension, concession, waiver or relaxation of any action stated in this contract by the Parties, the *Service Manager*, the *Supervisor*, or the *Adjudicator* does not constitute a waiver of rights, and does not give rise to an estoppel unless the Parties agree otherwise and confirm such agreement in writing.
Z2	**Providing the Service:**
Z2.1	**Delete core clause 20.1 and replace with the following:** The *Contractor* provides the Service in accordance with the Service Information and warrants that the results of the Service, when complete, shall be fit for their intended purpose.
Z5	**Termination**

Z5.1	**Add the following to core clause 91.1, at the second main bullet, fifth sub-bullet point, after the words "assets or":** "business rescue proceedings are initiated or steps are taken to initiate business recue proceedings"**.**
	Amendment to the Secondary Option Clauses
Z7	**Limitation of liability:**
Z7.1	**Insert the following new clause as Option X18.6:** The *Employer's* liability to the *Contractor* for the *Contractor's* indirect or consequential loss is limited to R0.00
Z7.2	Notwithstanding any other clause in this contract, any proceeds received from any insurances or any proceeds which would have been received from any insurances but for the conduct of the *Contractor* shall be excluded from the calculation of the limitations of liability listed in the contract
	Additional Z Clauses
Z8	**Cession, delegation and assignment**
Z8.1	The *Contractor* shall not cede, delegate or assign any of its rights or obligations to any person without the written consent of the *Employer*, which consent shall not be unreasonably withheld. This clause shall be binding on the liquidator/business rescue practitioner /trustee (whether provisional or not) of the *Contractor*
Z8.2	The *Employer* may cede and delegate its rights and obligations under this contract to any person or entity
Z9	**Joint and several liability**
Z9.1	If the *Contractor* constitutes a joint venture, consortium or other unincorporated grouping of two or more persons, these persons are deemed to be jointly and severally liable to the *Employer* for the performance of the Contract.
Z9.2	The *Contractor* shall, within 1 week of the Contract Date, notify the *Service Manager* and the *Employer* of the key person who has the authority to bind the *Contractor* on their behalf.
Z9.3	The *Contractor* does not materially alter the composition of the joint venture, consortium or other unincorporated grouping of two or more persons without prior written consent of the *Employer*.
Z10	**Ethics**
Z10.1	The *Contractor* undertakes:
Z10.1.1	not to give any offer, payment, consideration, or benefit of any kind, which constitutes or could be construed as an illegal or corrupt practice, either directly or indirectly, as an inducement or reward for the award or in execution of this contract;
Z10.1.2	to comply with all laws, regulations or policies relating to the prevention and combating of bribery, corruption and money laundering to which it or the *Employer* is subject, including but not limited to the Prevention and Combating of Corrupt Activities Act, 12 of 2004.
Z10.2	The *Contractor*'s breach of this clause constitutes grounds for terminating the *Contractor*'s obligation to Provide the Works or taking any other action as appropriate against the *Contractor* (including civil or criminal action). However, lawful inducements and rewards shall not constitute grounds for termination.
Z10.3	If the *Contractor* is found guilty by a competent court, administrative or regulatory body of participating in illegal or corrupt practices, including but not limited to the making of offers (directly or indirectly), payments, gifts, gratuity, commission or benefits of any kind, which are in any way whatsoever in connection with the contract with the *Employer*, the *Employer* shall be entitled to terminate the contract in accordance with the procedures stated in core clause 92.2. the amount due on termination is A1.
Z11	**Confidentiality**

Z11.1	All information obtained in terms of this contract or arising from the implementation of this contract shall be treated as confidential by the *Contractor* and shall not be used or divulged or published to any person not being a party to this contract, without the prior written consent of the *Service Manager* or the *Employer*, which consent shall not be unreasonably withheld.
Z11.2	If the *Contractor* is uncertain about whether any such information is confidential, it is to be regarded as such until otherwise notified by the *Service Manager*.
Z11.3	This undertaking shall not apply to –
Z11.3.1	Information disclosed to the employees of the *Contractor* for the purposes of the implementation of this agreement. The *Contractor* undertakes to procure that its employees are aware of the confidential nature of the information so disclosed and that they comply with the provisions of this clause;
Z11.3.2	Information which the *Contractor* is required by law to disclose, provided that the *Contractor* notifies the *Employer* prior to disclosure so as to enable the *Employer* to take the appropriate action to protect such information. The *Contractor* may disclose such information only to the extent required by law and shall use reasonable efforts to obtain assurances that confidential treatment will be afforded to the information so disclosed;
Z11.3.3	Information which at the time of disclosure or thereafter, without default on the part of the *Contractor*, enters the public domain or to information which was already in the possession of the *Contractor* at the time of disclosure (evidenced by written records in existence at that time);
Z11.4	The taking of images (whether photographs, video footage or otherwise) of the *works* or any portion thereof, in the course of Providing the Works and after Completion, requires the prior written consent of the *Service Manager*. All rights in and to all such images vests exclusively in the *Employer*
Z11.5	The *Contractor* ensures that all his Subcontractors abide by the undertakings in this clause.
Z12	***Employer*'s Step-in rights**
Z12.1	If the *Contractor* defaults by failing to comply with his obligations and fails to remedy such default within 2 weeks of the notification of the default by the *Service Manager*, the *Employer*, without prejudice to his other rights, powers and remedies under the contract, may remedy the default either himself or procure a third party (including any subcontractor or supplier of the *Contractor*) to do so on his behalf. The reasonable costs of such remedial works shall be borne by the *Contractor*
Z12.2	The *Contractor* co-operates with the *Employer* and facilitates and permits the use of all required information, materials and other matter (including but not limited to documents and all other drawings, CAD materials, data, software, models, plans, designs, programs, diagrams, evaluations, materials, specifications, schedules, reports, calculations, manuals or other documents or recorded information (electronic or otherwise) which have been or are at any time prepared by or on behalf of the *Contractor* under the contract or otherwise for and/or in connection with the *works*) and generally does all things required by the *Service Manager* to achieve this end.
Z13	**Liens and Encumbrances**
Z13.1	The *Contractor* keeps the Equipment used to Provide the Services free of all liens and other encumbrances at all times. The *Contractor,* vis-a-vis the *Employer,* waives all and any liens which he may from time to time have, or become entitled to over such Equipment and any part thereof and procures that his Subcontractors similarly, vis-a-vis the *Employer,* waive all liens they may have or become entitled to over such Equipment from time to time
Z14	**Intellectual Property**
Z14.1	Intellectual Property ("IP") rights means all rights in and to any patent, design, copyright, trade mark, trade name, trade secret or other intellectual or industrial property right relating to the Works.
Z14.2	IP rights remain vested in the originator and shall not be used for any reason whatsoever other than carrying out the *works.*

Z14.3 The *Contractor* gives the *Employer* an irrevocable, transferrable, non-exclusive, royalty free licence to use and copy all IP related to the *works* for the purposes of constructing, repairing, demolishing, operating and maintaining the works

Z14.4 The written approval of the *Contractor* is to be obtained before the *Contractor*'s IP made available to any third party which approval will not be unreasonably withheld or delayed. Prior to making any *Contractor*'s IP available to any third party the *Employer* shall obtain a written confidentiality undertaking from any such third party on terms no less onerous than the terms the *Employer* would use to protect its IP

Z14.5 The *Contractor* shall indemnify and hold the *Employer* harmless against and from any claim alleging an infringement of IP rights (**"the claim"**), which arises out of or in relation to:

Z14.5.1 the *Contractor's* design, manufacture, construction or execution of the Works

Z14.5.2 the use of the *Contractor's* Equipment, or

Z14.5.3 the proper use of the Works.

Z14.6 The *Employer* shall, at the request and cost of the *Contractor*, assist in contesting the claim and the *Contractor* may (at its cost) conduct negotiations for the settlement of the claim, and any litigation or arbitration which may arise from it.

Z15 Dispute resolution:

Z15.1 Appointment of the Adjudicator

An *Adjudicator* is appointed when a dispute arises, from the Panel of Adjudicators below. The referring party nominates an Adjudicator, which nomination is either accepted or rejected by the other party. In the instance of a rejection of the nominated *Adjudicator,* the referring Party refers the appointment deadlock to the Chairman of the Johannesburg Bar Council, who appoints an *Adjudicator* listed in the Panel of Adjudicators below

The Parties appoint the *Adjudicator* under the NEC3 Adjudicator's Contract, April 2013

Panel of Adjudicators

Name	Location	Contact details (phone & e mail)
Adv. Ghandi Badela	Gauteng	+27 11 282 3700 ghandi@badela.co.za
Mr. Errol Tate Pr. Eng.	Durban	+27 11 262 4001 Errol.tate@mweb.co.za
Adv. Saleem Ebrahim	Gauteng	+27 11 535-1800 salimebrahim@mweb.co.za
Mr. Sebe Msutwana Pr. Eng.	Gauteng	+27 11 442 8555 sebe@civilprojects.co.za
Mr. Sam Amod	Gauteng	sam@samamod.com
Adv. Sias Ryneke SC	Gauteng	083 653 2281 reyneke@duma.nokwe.co.za
Mr. Emeka Ogbugo (Quantity Surveyor)	Pretoria	+27 12 349 2027 emeka@gosiame.co.za

Z15.2 Appointment of the Arbitrator

An *Arbitrator* is appointed when a dispute arises from the Panel of Arbitrators below. The referring party nominates an Arbitrator, which nomination is either accepted or rejected by the other party. In the instance of a rejection of the nominated *Arbitrator,* the referring Party refers the appointment deadlock to the Chairman of the Johannesburg Bar Council, who appoints an *Arbitrator* listed in the Panel of *Arbitrators* below

Panel of Arbitrators

Name	Location	Contact details (phone & e mail)
Adv. Ghandi Badela	Gauteng	+27 11 282 3700 ghandi@badela.co.za
Mr. Errol Tate Pr. Eng.	Durban	+27 11 262 4001 Errol.tate@mweb.co.za
Adv. Saleem Ebrahim	Gauteng	+27 11 535-1800 salimebrahim@mweb.co.za
Mr. Sebe Msutwana Pr. Eng.	Gauteng	+27 11 442 8555 sebe@civilprojects.co.za
Mr. Sam Amod	Gauteng	sam@samamod.com
Adv. Sias Ryneke SC	Gauteng	083 653 2281 reyneke@duma.nokwe.co.za
Mr. Emeka Ogbugo (Quantity Surveyor)	Pretoria	+27 12 349 2027 emeka@gosiame.co.za

Z16 Notification of a compensation event

Z16.1 Delete “eight weeks” in clause 61.3 and replace with “four weeks”. Delete the words “unless the event arises from the Service Manager or the Supervisor giving an instruction, issuing a certificate, changing an earlier decision or correcting an assumption.

Z17 BBBEE and Tax Clearance Certificates

Z17.1 The *Contractor* shall be expected to annually present a compliant BEE Certificate and a Tax clearance Certificate. Failure to do adhere to these requirements shall be considered a material breach of the conditions of this Contract, the sanction for which may be a cancellation of this Contract.

Z18 Communication

Z18.1 **Add a new Core Clause** 14.5 and 14.6 to read as follows:
The *Service Manager* requires the written consent of the Employer if an action will result in a change to the design, scope, and Service information that is 5% or more

Z18.2 The *Service Manager* requires the written consent of the Employer if an action will result in the Completion Date being extended by more than 30 days.

Z19 Delegation

As stipulated by Section 37(2) of the Occupational Health and Safety Act No. 85 of 1993 as amended the *Contractor* agrees to the following:

Z19.1 As part of this contract the *Contractor* acknowledge that it (mandatory) is an employer in its own right with duties as prescribed in the Occupational Health and Safety Act No 85 of 1993 as amended and agree to ensure that all work being performed, or Equipment, Plant and Materials being used, are in accordance with the provisions of the said Act, and in particular with regard to the Construction Regulations.

PART C1.2b CONTRACT DATA

PART TWO – DATA PROVIDED BY THE *CONTRACTOR*

Clause	Statement	Data
10.1	The Contractor is (Name):	
	Company Registration Number	
	Company VAT Number	
	Address	
	Telephone no.	
	Fax No.	
11.2	The *working areas* are	See C3 'Service Information'
24.1	The *Contractor's Key people* are:	**CV's to be appended to Resource Proposal (FORM C7)**
1	**SITE SUPERVISOR- (Fitter/Millwright/Electrician Trade test and any OHS training Certificate)**	
	Name:	
	Qualifications relevant to this contract	
	Experience	
2	**Artisan /Fitter/Millwright**	
	Name:	

	Qualifications relevant to this contract	
	Experience	
3	**Assistant Technician N2 (mechanical/Electrical)** Name:	
	Qualifications relevant to this contract	
	Experience	
11.2	The following matters will be included in the Risk Register	• Existing Services (Meeting SLA) • Access to Site • Delay in supply of material and/or equipment • Delays in execution of Ad hoc repairs • Use of tools and attaining permits for hot works and unplanned maintenance work • Travelling public and ACSA stakeholders • Staff complement. • Non-adherence to safety requirements • Risk of financial loss and/or injury of persons due to the proximity of the service (or of persons performing the service, or of moving/stationary vehicles) to moving and stationary aircraft • Health risk and/or risk of injury/death due to exposure of persons to poisonous and flammable substances and gases • Risk of injury due to lifting of heavy objects or falling on heights

PART C1: AGREEMENTS AND CONTRACT DATA

C1.3: OCCUPATIONAL HEALTH AND SAFETY AGREEMENT

OCCUPATIONAL HEALTH AND SAFETY MANDATARY AGREEMENT

1 AGREEMENT IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH & SAFETY ACT (ACT 85 Of 1993), AS AMENDED & CONSTRUCTION REGULATION 5.1(k)

OBJECTIVES

To assist Airport Company South Africa (ACSA) in order to comply with the requirements of:

1. The Occupational Health & Safety (Act 85 of 1993), as amended and its regulations and
2. The Compensation for Occupational Injuries & Diseases Act (Act 130 of 1993) also known as the (COID Act).
3. Construction Regulations 2014

2 To this end an Agreement must be concluded before any contractor/ subcontracted work may commence

The parties to this Agreement are:

Name of Organisation: **AIRPORTS COMPANY SOUTH AFRICA" ACSA"**
Physical Address: Airport Company South Africa **The Maples, Riverwoods, 24 Johnson Road, Bedfordview, Gauteng, South Africa, 2008** **P O Box 75480, Gardenview, Gauteng, South Africa, 2047**

Hereinafter referred to as "Client"

Name of organisation:
Physical Address

Hereinafter referred to as "the Mandatary/ Principal Contractor"

MANDATARY'S MAIN SCOPE OF WORK

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1. Definitions

1.1 "Mandatary" is defined as an agent, a principal contractor or a contractor for work, or service provider appointed by the Client to execute a scope of work on its behalf, but WITHOUT DEROGATING FROM HIS/HER STATUS IN HIS/HER RIGHT AS AN EMPLOYER or user of the plant.

1.2 "Client" refers to ACSA;

1.3 "Parties" means ACSA and the Contractor, and "Party" shall mean either one of them, as the context indicates;

1.4 "Services" means the services provided by the Contractor or Stakeholder to ACSA;

1.5 "Stakeholder" refers to companies conducting business at ACSA premises or within close proximity where there is an interface with ACSA operations;

1.6 "The OHS Act" refers to Occupational Health and Safety Act 85 of 1993, as amended;

"The COID Act" refers to Compensation for Occupational Injuries and Diseases Act 61 of 1997, as amended; and

1.7 "SHE" means Safety, Health and Environment.

1.8

GENERAL INFORMATION FORMING PART OF THIS AGREEMENT

a) The Occupational Health & Safety Act comprises of SECTION 1-50 and all unrepealed REGULATIONS promulgated in terms of the former Machinery and Occupational Safety Act No.6 of 1983 as amended as well as other REGULATIONS which may be promulgated in terms of the Act and other relevant Acts pertaining to the job in hand.

b) Section 37 of the Occupational Health & Safety Act potentially punishes Employers for unlawful acts or omissions of Mandatories where a Written Agreement between the parties has not been concluded containing arrangements and procedures to ensure compliance with the said Act BY THE MANDATORY.

c) All documents attached or refer to in the above Agreement form an integral part of the Agreement.

d) To perform in terms of this agreement Mandataries must be familiar and conversant with the relevant provisions of the Occupational Health & Safety Act 85 of 1993 (OHS Act) and applicable Regulations.

e) Mandatories who utilise the services of other contractors must conclude a similar Written Agreement with those companies.

f) Be advised that this Agreement places the onus on the Mandatary to contact the CLIENT in the event of inability to perform as per this Agreement.

g) This Agreement shall be binding for all work the Mandatory undertakes for the Client and remains in force for the duration of the contracted period as per Main Contract signed by both parties.

h) The contractor shall submit all necessary documentation as per SHE File Index to the Client seven days prior to starting with any work.

THE UNDERTAKING

The Mandatory undertakes to comply with:

2. REPORTING

The Mandatary and/or his / her designated person shall report to the Client prior to commencing any work at the airports as well as when the activities change from the original scope of work.

3. WARRANTY OF COMPLIANCE

3.1 In terms of this agreement the Mandatary warrants that he / she agrees to the arrangements and procedures as prescribed by the Client and as provided for in terms of Section 37(2) of the OHS Act for the purposes of compliance with the Act.

3.2 The Mandatary further warrants that he / she and / or his / her employees undertake to maintain such compliance with the OHS Act. Without derogating from the generality of the above, or from the provisions of the said agreement, the Mandatary shall ensure that the clauses as hereunder described are at all times adhered to by himself / herself and his / her employees.

3.3 The Mandatary hereby undertakes to ensure that the health and safety of any other person on the premises is not endangered by the conduct of his / her activities and that of his / her employees.

4. SHE Risk Management

4.1 The Mandatary shall ensure that a baseline risk assessment is performed by a competent person before commencement of any work in the Client's premises. A baseline risk assessment document will include identification of hazards and risk, analysis and evaluation of the risks and

hazards identified, a documented plan and safe work procedures to mitigate, reduce or control the risks identified, and a monitoring and review plan of the risks and hazards.

4.2 The Mandatary shall review the risk registers as and when the scope of work changes and keep the latest version on the SHE File.

5. MEDICAL EMERGENCY RESPONSE

The Mandatary shall submit a detailed emergency response procedure to the Client OHS Department as part of the SHE File prior to start of work. The procedure shall stipulate how the Mandatary intends to attend to medical emergencies. In the sites where the Client has onsite clinic services, the medical staff can provide first line response and stabilise the patient however the Mandatary shall then activate its own medical response procedure and transport the patient to the medical facilities for further medical attention.

6. APPOINTMENTS AND TRAINING

6.1 The Mandatary shall appoint competent persons as per Section 16(2) of the OHS Act. Any such appointed person shall be trained on any occupational health and safety matter and the OHS Act provisions pertinent to the work that is to be performed under his / her responsibility. Copies of any appointments and certificates made by the Mandatary shall immediately be provided to the Client.

6.2 The Mandatary shall at the beginning of the project or activities where there are 5 people and more people working appoint a full time dedicated Health and Safety resource whom will be dedicated to the project to ensure that Safety, Health and Environmental Requirements are met at all times. The allocated resource shall be based where the project is undertaken for the duration of the project or scope of work execution. The resource shall be trained and qualified on Occupational Health and Safety matters and the OHS Act provisions pertinent to the work that is to be carried out.

6.3 The Mandatary shall further ensure that all his / her employees are trained on the health and safety aspects relating to the work and that they understand the hazards associated with such work being carried out on the airports. Without derogating from the foregoing, the Mandatary shall, in particular, ensure that all his / her users or operators of any materials, machinery or equipment are properly trained in the use of such materials, machinery or equipment.

6.4 Notwithstanding the provisions of the above, the Mandatary shall ensure that he / she, his / her appointed responsible persons and his / her employees are at all times familiar with the provisions of the OHS Act, and that they comply with the provisions of the Act.

6.5 The Mandatary shall at all material times be responsible for all costs associated with the performance of its own obligations and compliance with the terms of this Agreement, unless otherwise expressly agreed by the Parties in writing.

7. SUPERVISION, DISCIPLINE AND REPORTING

7.1 The Mandatary shall ensure that all work performed on the Clients premises is done under strict supervision and that no unsafe or unhealthy work practices are permitted. Discipline regarding health and safety matters shall be strictly enforced against any of his / her employees regarding non- compliance by such employee with any health and safety matters.

7.2 The Mandatary shall further ensure that his / her employees report to him / her all unsafe or unhealthy work situations immediately after they become aware of the same and that he / she in turn immediately reports these to the Client within 48 hours with the action taken to mitigate the risk.

7.3 Where the hazard or risk identified is the responsibility of the Client to action, the Mandatary shall notify the Client OHS and Safety Department within 24 hours of becoming aware of the hazard or risk for prompt action to mitigate.

8. COOPERATION

8.1 The Mandatary and his/her employees shall provide full co-operation and information if and when the Client or his / her representative enquires into occupational health and safety issues concerning the Mandatary. It is hereby recorded that the Client and his / her representative shall at all times be entitled to make such an inquiry.

8.2 Without derogating from the generality of the above, the Mandatary and his/ her responsible persons shall make available to the Client and his / her representative, on request, all and any checklists and inspection registers required to be kept by him / her in respect of any of his / her materials, machinery or equipment and facilities.

9. WORK PROCEDURES

9.1 The Mandatary shall, after having established the dangers associated with the work performed, develop and implement mitigation measures to minimize or eliminate such dangers for the purpose of ensuring a healthy and safe working environment.

9.2 The Mandatary shall then ensure that his / her responsible persons and employees are familiar with such mitigation measures. This includes the lock out tag out processes relating to the use of machinery.

9.3 The Mandatary shall implement any other safe work practices as prescribed by the Employer and shall ensure that his / her responsible persons and employees are made conversant with and adhere to such safe work practices.

9.4 The Mandatary shall ensure that work for which a permit is required by the Employer or any statute is not performed by his / her employees prior to the obtaining of such a permit.

10. HEALTH AND SAFETY MEETINGS

10.1 OHS Act requires that Health and Safety Committees be established in case where employee count exceeds 20 onsite, however due to the duration and the nature of the scope of work executed by the contractors and stakeholders enforces that regardless of employees at the airports. The Mandatary shall establish his / her own health and safety committee(s) and ensure that his / her employees, being the committee members, hold health and safety representatives to attend the Employer's health and safety committee meetings on monthly basis.

10.2 The Mandatary Section 16(2) appointed and SHE resource shall attend the Client SHE meetings as per the schedule communicated. In cases where the Mandatary delegated resources are not able to attend the meeting, an apology shall be submitted to the Client OHS Manager 24 hours before the meeting. An alternative representative shall be deployed to attend the meeting on the half of the Mandatary.

10.3 The Mandatary appointed Section 16(2) and SHE resource shall not skip more than three SHE Committee meetings a year.

11. COMPENSATION REGISTRATION/INSURANCE

11.1 The Mandatary warrants that all their employees and/or their contractor's employees if any are covered in terms of the COID Act, which shall remain in force whilst any such employees are present on the Client's premises. A letter is required prior commencing any work on site confirming that the Principal contractor or contractor or stakeholder is in good standing with the Compensation Fund or Licensed Insurer.

11.2 The Mandatary warrants that they are in possession of the following insurance cover, which cover shall remain in force whilst they and /or their employees are present on the Client's premises, or which shall remain in force for that duration of their contractual relationship with the Client, whichever period is the longest.

11.3 The Mandatary shall provide the Client with Public Liability Insurance Cover as required by the Main Contract

11.4 Any other Insurance cover that will adequately makes provision for any possible losses and/or claims arising from their and /or their Subcontractors and/or their respective employee's acts and/or omissions on the Client's premises.

11.5 The Mandatary shall send updated Letter of Good Standing to the Client as and when the Mandatary receives it to ensure that the most valid version is available.

12. MEDICAL EXAMINATIONS

12.1 The Mandatary shall ensure that all his / her employees undergo routine medical examinations and that they are medically fit for the purposes of the work they are to perform.

12.2 Copies of such medical fitness certificates shall be made available to Client as part of the SHE file for review to ensure that they have been conducted by a reputable Occupational Health Practitioner registered with Health Professions Council of South Africa (HPCSA) as a doctor and specialist Occupational Medical Practitioner. Any other additional medical assessment shall be conducted in line with risk exposures.

12.3 Standard (Basic) medical tests shall constitute the following assessments as minimum:

- Individual's history of general and previous occupational health
- Comprehensive physical examination for evaluation of systemic function
- Blood Pressure Measurement
- Weight, Height and Body Mass Index
- Urine screening
- Drug screening
- Audio screening
- Lung Function Test
- Keystone eye test
- Work at Height Questionnaire
- Muscular skeletal questionnaire

13. INCIDENT REPORTING AND INVESTIGATION

13.1 All Safety, Health and Environmental Incidents shall be reported to the Client OHS and Safety Department within two hours from the time of occurrence via a phone call, sms or email or before end of shift. This shall be followed by a formal report in a form of a preliminary report

within forty-eight (48) hours.

13.2 All incidents referred to in Section 24 of the OHS Act shall be reported by the Mandatary to the Department of Labour and copies of such reporting to be sent to the Client. The Mandatary shall further be providing with copies of any written documentation and medical reports relating to any incident.

13.3 The Client retains an interest in the reporting of any incident as described above as well as in any formal investigation and/or inquiry conducted in terms of section 32 of the OHS-Act into such incident.

13.4 The Client reserves a right to hold its own investigation into any incident where it deems it is not satisfied with the incident investigation or where the severity of the incident is fatal or damage beyond a value of 1 million and above.

14. SUB CONTRACTORS

14.1 The Mandatary shall notify the Client of any subcontractor he / she may wish to source to perform work on his / her behalf on the Client premises. It is hereby recorded that all the terms and provisions contained in this clause shall be equally binding upon the subcontractor prior to the subcontractor commencing with the work. Without derogating from the generality of this paragraph:

14.2 The Mandatary shall ensure that the sub-contractor meets all the requirements and is competent for the scope of work contracted for. This includes that approval of the SHE file, SHE Plans associated with the work.

15. SECURITY AND ACCESS

The Mandatary shall request and familiarise its employees with the Client security rules which is not included in this agreement.

16. FIRE PRECAUTIONS AND FACILITIES

16.1 The Mandatary shall ensure that all his / her employees are familiar with fire precautions at the site(s), which includes fire-alarm signals and emergency exits, and that such precautions are adhered to.

16.2 This includes participating on planned and unplanned emergency drills organised the Client.

17. FACILITIES

The Mandatary shall have a program to upkeep and maintain the facilities leased out to it /shared with/ by the Client as stipulated on lease agreement.

18. HYGIENE AND CLEANLINESS

The Mandatary shall ensure that the work site, ablution, offices and surround area is at all times maintained to the reasonably practicable level of hygiene and cleanliness. In this regard, no loose materials shall be left lying about unnecessarily and the work site shall be cleared of waste material regularly and on completion of the work.

19. INTOXICATION AND SUBSTANCE ABUSE

19.1 Entry to the airside is subjected to Aviation Safety Requirements in line with Client Substance Abuse Policy. No intoxicating substance of any form shall be allowed on site where airside or land side. Any person suspected of being intoxicated shall not be allowed on the site. Any person required to take medication shall notify the relevant responsible person thereof, as well as the potential side effects of the medication.

19.2 The Client reserves a right to do substance abuse testing and main entry points for the Mandatary employees.

19.3 Intoxication limits shall be adhered to as stipulated on Client Substance Abuse Policy.

19.4 Records of substance abuse testing shall be filed on the SHE File and made available to the Employer on request.

20. PERSONAL PROTECTIVE EQUIPMENT

20.1 The Mandatary shall ensure that his / her responsible persons and employees are provided with adequate personal protective equipment (PPE) for the work they may perform and in accordance with the requirements of General Safety Regulation 2 (1) of the OHS Act. The Mandatary shall further ensure that his / her responsible persons and employees wear the PPE issued to them at all times.

20.2 The Mandatary shall be monitoring compliance to PPE of his/her own employees at all times, The Client can at its discretion conduct random PPE compliance inspections and these can be recorded officially on the Client nonconformance reporting tool.

20.3 The Mandatary shall keep records PPE Control cards of each employee those shall be kept on SHE File.

21. PLANT, MACHINERY AND EQUIPMENT

21.1 The Mandatary shall ensure that all the plant, machinery, equipment and/or vehicles he / she may wish to utilize on the Client premises is/are at all times of sound order and fit for the purpose for which it/they is/are attended to, and that it/they complies/comply with the requirements of Section 10 of the OHS Act.

21.2 Where the Mandatary equipment's interface to the Client's equipment's, a joint risk assessment shall be conducted by the Mandatary and the Client OHS department in order for the risks to be mitigated prior to the use of such equipment's. It is the responsibility of the Mandatary to notify the Client OHS department of such equipment's and machinery.

21.3 In accordance with the provisions of Section 10(4) of the OHS Act, the Mandatary hereby assumes the liability for taking the necessary steps to ensure that any article or substance that it erects or installs at the sites, or manufactures, sells or supplies to or for the Client, complies with all the prescribed requirements and will be safe and without risks to health and safety when properly used.

22. USAGE OF THE CLIENT'S EQUIPMENT

22.1 The Mandatary hereby acknowledge that his / her employees are not permitted to use any materials, machinery or equipment of the Employer unless the prior written consent of the Client has been obtained, in which case the Mandatary shall ensure that only those persons authorized to make use of same, have access thereto.

22.2 The Client shall ensure that it isolates and apply LOTO on any equipment's and machinery where there is an unexpected start up or flow of energy. The Mandatary has a responsibility to apply its own LOTO procedures before starting with work and post the use of the equipment and machinery.

23. PERMIT MANAGEMENT

23.1 The Mandatary shall ensure that work for which the issuing of permit to work is required shall not be performed prior to the obtaining of a duty completed approved permit by the Client or relevant Authority.

23.2 The Mandatory shall notify the Client of any work to be undertaken on site in order for the Permit to Work to be issued.

24. TRANSPORTATION

24.1 The Mandatary shall ensure that all road vehicles used on the sites are in a roadworthy condition and are licensed and insured. All drivers shall have relevant and valid driving licenses and vehicle shall carry passengers unless it is specifically designed to do so. All drivers shall adhere to the speed limits and road signs on the premises at all times.

24.2 No employees on premises permitted in back of LDV (bakkie) and in front of LDV each driver and passenger must have a separate seat belt.

24.3 In the event that any hazardous substances are to be transported on the premises, the Mandatary shall ensure that the requirements of the Hazardous Substances Act 15 of 1973 are complied with fully all times.

25. CLARIFICATION

In the event that the Mandatary requires clarification of any of the terms or provisions of this agreement, he / she should contact the Client OHS Department.

26. DURATION OF AGREEMENT

This agreement shall remain in force for the duration of the work to be performed by the Mandatary and/or while any of the Mandatary's employees are present on the Client site.

27. NON-COMPLIANCE WITH THE AGREEMENT

If Mandatary fails to comply with any provisions of this agreement, the Client shall be entitled to give the Fourteen (14) days' notice in writing to remedy such noncompliance and if the Mandatary fails to comply with such notice, then the Client shall forthwith be entitled but not obliged, without prejudice to any other rights or remedies which the Mandatary may have in law,

- Apply penalties as stipulated on the main contract between Mandatory and the Client.
- To claim immediate performance and/or payment of such obligations.
- Should Mandatary continue to breach the contract on three occasions for the same deviation, then the Client is authorised to suspend the main contract without complying with the condition stated in clause above.

28. INDEMNITY

The Mandatary hereby indemnifies the Client against any liability, loss, claims or proceedings whatsoever, whether arising in Common Law or by Statute; consequent personal injuries or the death of any person whomsoever (including claims by employees of the Mandatary and their dependents); or consequent loss of or damage to any moveable or immoveable property arising out of or caused by or in connection with the execution of the Mandatary's contract with the Client, unless such liabilities, losses, claims or proceedings whatsoever are attributable to the Client's faults. The Mandatary or his/her employees is liable to prove without reasonable doubt that the loss is due to the Client's fault or negligence.

COMPLIANCE WITH THE OCCUPATIONAL HEALTH & SAFETY ACT 85 OF 1993

The Mandatary undertakes to ensure that they and/or their subcontractors if any and/or their respective employees will at all times comply with the following conditions:

a) All work performed by the Mandatary on the Client's premises must be performed under the close supervision of the Mandatary's employees who are to be trained to understand the hazards associated with any

work that the Mandatary performs on the Client's premises.

b) The Mandatary shall be assigned the responsibility in terms of Section 16(1) of the OHS Act 85 of 1993, if the Mandatary assigns any duty in terms of Section 16(2), a copy of such written assignment shall immediately be forwarded to the Client.

c) The Mandatary shall ensure that he/she familiarise himself/herself with the requirements of the OHS Act 85 of 1993 and that s/he and his/her employees and any of his subcontractors comply with the requirements.

29. FURTHER UNDERTAKING

Only a duly authorised representative appointed in terms of Section 16.2 of the OHS Act is eligible to sign this agreement on behalf of the Mandatary. The signing power of this representative must be designated in writing. A copy of this letter must be made available to the Client.

The Contract/Project Manager shall sign this agreement as the Client's representative.

3 ACCEPTANCE BY MANDATARY

In terms of section 37(2) of the Occupational Health & Safety Act 85 of 1993 and section 5.1(k) of the Construction Regulations 2014,

I …….a duly authorised 16.2 Appointee acting for and on behalf of ……..(company name) undertake to ensure that the requirements and the provision of the OHS Act 85 of 1993 and its regulations are complied with.

Mandatary – WCA/ Federated Employers Mutual No……. Expiry date ……..

_____ _____

4 SIGNATURE ON BEHALF OF MANDATARY **DATE**
(Warrant his authority to sign)

Witnesses:

1. _____

2. _____

_____ _____

5 SIGNATURE ON BEHALF OF THE CLIENT **DATE**
AIRPORT COMPANY SOUTH AFRICA

Witnesses:

3. _____

4. _____

PART C1: AGREEMENTS AND CONTRACT DATA

C1.4: ACSA INSURANCE CLAUSES

***Summary of Terms and other Matters Applicable to Employer* Provided Insurance**

For OPEX projects and non-construction CAPEX projects on the landside (including inside the terminal building):

The successful bidder must source the following insurance cover, which is the deductible in the ACSA insurance cover:

- ***Aviation liability insurance cover for an indemnity limit not less than R100 000 (one hundred thousand rands).***
- ***Submit proof of insurance to ACSA before the work starts, and annually for the duration of the project.***

C2.1 Pricing assumptions: Option A

The conditions of contract

How work is priced and assessed for payment
Clause 11 in NEC3 Term Service Contract, April 2013 (TSC3) core clauses and Option A states:

Identified and defined terms	11 11.2	(12) The Price List is the price list unless later changed in accordance wit contract. (17) The Price for Services Provided to Date is the total of the Price for each lump sum item in the Price List which the Contracto completed and where a quantity is stated for an item in the Price List, an amount calculat multiplying the quantity which the Contractor has completed by the rate. (19) The Prices are the amounts stated in the Price column of the Price Where a quantity is stated for an item in the Price List, the Price is calculat multiplying the quantity by the rate.

This confirms that Option A is a priced contract where the Prices are derived from a list of items of service which can be priced as lump sums or as expected quantities of service multiplied by a rate or a mix of both. Where it is contemplated that the Price List represents the type of work, quantity and cost thereof which may or not be selected by the Employer, it is important to ensure that service items listed do not create liability on a daily basis if that is not the intention. For example, if the service is maintenance of an installation on an ad hoc or call-off basis which may require the Contractor to be on standby but not permanently on the Affected Property, avoid listing service items which may be treated as preliminary and general (P&Gs) items, whether fixed or time-related such as contractual requirements, establishing on site, offices, storage, ablutions, water supplies, power supply, telecommunications. The Price List should align with the intention of the contract and selection of Option X 19 should be considered. If the Contractor is required to price P&G items ensure that the tender, contract and Price List provides clearly that daily charges are applicable only as necessitated by the specific activity and authorised by the Service Manager. Particular care should be taken when utilising SANS 1200 as a guide for tenderers or for preparing templates for Price Lists in tenders. Avoid referring to the Price List as the Activity Schedule.

Function of the Price List

Clause 54.1 in Option A states: “Information in the Price List is not Service Information”. This confirms that instructions to do work or how it is to be done are not included in the Price List but in the Service Information. This is further confirmed by Clause 20.1 which states, “The Contractor Provides the Service in accordance with the Service Information”. Hence the Contractor does not Provide the Service in accordance with the Price List. The Price List is only a pricing document.

Link to the Contractor’s plan
Clause 21.4 states “The Contractor provides information which shows how each item description on the Price List relates to the operations on each plan which he submits for acceptance”. Hence when compiling the price list, the tendering contractor needs to develop his first clause 21.2 plan in such a way that operations shown on it can be priced in the price list and result in a satisfactory cash flow in terms of clause 11.2(17).

Preparing the price list
It will be assumed that the tendering contractor has read Pages 14, 15 and 76 of the TSC3 Guidance Notes before preparing the price list. Items in the price list may have been inserted by the Employer and the tendering contractor should insert any additional items which he considers necessary. Whichever party provides the items in the price list the total of the Prices is assumed to be fully inclusive of everything necessary to Provide the Service as described at the time of entering into this contract.

As the Contractor has an obligation to correct Defects (core clause 42.1) and there is no compensation event for this unless the Defect was due to an Employer's risk, the lump sum Prices and rates must also include for the correction of Defects.

If the Contractor has decided not to identify a particular item in the price list at the time of tender the cost to the Contractor of doing the work must be included in, or spread across, the other Prices and rates in the price list in order to fulfil the obligation to complete the service for the tendered total of the Prices.

There is no adjustment to lump sum prices in the price list if the amount, or quantity, of work within that lump sum item of service later turns out to be different to that which the Contractor estimated at time of tender. The only basis for a change to the Prices is as a result of a compensation event. See Clause 60.1.

Hence the Prices and rates tendered by the Contractor in the price list are inclusive of everything necessary and incidental to Providing the Service in accordance with the Service Information, as it was at the time of tender, as well as correct any Defects not caused by an Employer's risk.

The Contractor does not have to allow in his Prices and rates for matters that may arise as a result of a compensation event. It should be noted that the list of compensation events includes those arising as a result of an Employer's risk event listed in core clause 80.1.

Format of the price list
(From page 76 of the TSC3 Guidance Notes)

Entries in the first four columns in the price list in section C2.2 are made either by the Employer or the tendering contractor.

If the Contractor is to be paid an amount for the item which is not adjusted if the quantity of work in the item changes, the tendering contractor enters the amount in the Price column only, the Unit, Expected Quantity and Rate columns being left blank.

If the Contractor is to be paid an amount for an item of work which is the rate for the work multiplied by the quantity completed, the tendering contractor enters the rate which is then multiplied by the Expected Quantity to produce the Price, which is also entered.

If the Contractor is to be paid a Price for an item proportional to the length of time for which a service is provided, a unit of time is stated in the Unit column and the expected length of time (as a quantity of the stated units of time) is stated in the Expected Quantity column.

C2.2 The Price List

The following Activity Schedule is provided "as-is" for the benefit of the Bidder. ACSA (the Employer) cannot guarantee that it is complete in all respects. The Bidder is responsible for providing an Activity Schedule which is accurate, complete and in accordance with their proposal. Also, refer to C3 (Service information) for activities that need to be priced. Only items listed in this Activity Schedule may be billed to the Employer.

ACSA reserves the right to vary all the activities according to the rates given in this contract.

Table A: Activity Schedule Part 1 : Baggage handling system and Check in mechanical conveyors and carousels

Item no.	Activity Description	Frequency	Quantity	Amount (per single item)	Amount (per Annual)
1	Airport permits and parking fees – provisional sum	Once		R5 000.00	
	Maintenance & Inspections				
2	Daily/weekly Inspections & Maintenance and monthly inventory management	Monthly	12		
3	Quarterly Inspections & Maintenance	Quarterly	4		
4	Semi-Annual Inspections & Maintenance	Six Monthly	2		
5	Annual Inspections & Maintenance	Yearly	1		
	Total Maintenance & Inspections				
	NB Incentives: *see section on incentives (Provide a solution initiative which reduces the rate of failure and the reduction to be traced from recorded historic failures vs after implementation).*	Yearly	**5**	10% of saving made from initiatives by Service Provider	
Total	**Sub-total A (Airport permits and parking fees + Total Maintenance & Inspections)**				

*The above activity schedule is minimum work required and the contractor as the subject expect matter on these services they are bidding for **shall fill in any other** activity with prices for "other" activities which they deem necessary to achieve the set out comes on availability ,reliability, maintainability, MTTR, MTBF, legislative and all other targets set in this contract. **Should an alternative not be presented, the offer will be deemed as the contractor's optimal proposal for which they will be liable for.***

**All rates for all activities including diagnostic and repair shall include all required tools, software, hardware and consumables (including all applicable specialized tools and software, hardware and consumables) Onus is on the contractor to price correctly).

***It is noted that the required labour resources and skills for this contract is not prescribed in detail. The contractor is fully responsible to ensure that labour resources remain adequate and competent in order to maintain required service levels, system performance levels and according to all applicable laws and regulations. The Tenderer shall also ensure that all required maintenance is catered for as per the Original Equipment Manufacturer in the pricing above.

****Incentives and Low service damages will be applicable as per the Low **service damages table and Incentive table in this contract**

Labour rates and Mark-up

Any work not included under part 1 shall be deemed additional work or non-scheduled items and will be charged at the following rates:

Activity Schedule – part 2 (Labour rates and Mark-up - Breakdowns)

Any work not included under part 1 shall be deemed additional work or non-scheduled items and will be charged at the following rates:

*All rates to exclude vat. Subject to mutual agreement between ACSA and the Contractor, the number of staff allocated to the contract may be increased/decreased to cater for special needs that may arise from time to time.

Labour rates shall include all personnel insurance, holidays with pay, incentive bonuses.

Note: No labour shall be charged for travel or travelling. Labour time shall be calculated for the time spent on site.

Call out rate must include all required travelling and the **first hour on site**.

i) **LABOUR RATES:** ***(to be filled in)***

Item	Description	Normal hours(R/hour)	After hours (R/hour)	
			Saturday	Sunday/public holiday
1	Site Manager			
2	Technician			
3	Technician assistant/ Semi-skilled labour			
4	Engineering Specialist			

Detail requirements regarding staff

The Contractor shall continuously ensure that all staff is suitable, able and competent for the duties required of them. Staff must have experience and applicable competencies as per OEM and all legislations in the maintenance of Baggage handling system mechanical conveyors and carousels. The Contractor shall continuously ensure that all staff is knowledgeable on all equipment relating to the Baggage handling system mechanical conveyors and carousels.

Note the following minimum below as per standardised Maintenance and Repairs of Mechanical, Smoke vents, Electrical and Controls BHS (Conveyors and carousels) systems at CTIA resources per infrastructure:

Site Supervisor	• Min SAQA Accredited Trade test (Millwright/Fitting/Electrician) • Any OHS training certificate	• Min 3 yrs experience in maintenance of conveyors and or carousels • Min 5 yrs experience in the management of a maintenance team comprising at least 10 people • Min 2 yrs experience in OHS
Technician (s)	• Min SAQA accredited Trade Test Certificate (Millwright) • Min SAQA Accredited Trade test (Fitting)	• Min 3 yrs experience in maintenance of airport Baggage Handling System carousels and conveyors or similar conveyors in a bulk material handling company
Assistants	N2 Mechanical/Electrical	• Min 1 yr experience in maintenance of mechanical or electrical systems

ii) CALL OUT FEE + DIOGNOSTIC AND REPAIR RATES

NOTE:

a) All rates for all activities including diagnostic and repair shall include all required tools, software, hardware and consumables (including all applicable specialized tools and software, hardware and consumables) Onus is on the contractor to price correctly).

b) All *call out* shall include all applicable travelling, all personnel insurance, holidays with pay, incentive bonuses etc. Labour laws and all applicable laws shall be followed by the contractor.

c) Call outs are not chargeable during hours technician/artisan/assistants or any applicable resource are on site.

d) Call outs are not chargeable during working hours' technician/ assistants are on site and these will be determined by the service manager during risk register meetings.

e) The contractor will be compensated according to the contractor's repair rate provided in the below table B and it is subject to discussion with the service manager due to proven factors that are beyond the contractor's control (some of the internal and external factors are listed in Annex T) .

f) Call-out remuneration is applicable to activities falling out of preventative maintenance activities that were supposed to be done by the contractor; thus ACSA will not pay for breakdown which are due to preventative maintenance negligence by the contractor.

Table B: Call outs + Labour

Description **Call Out**	**Quantity**	**Call out fee-** *(Contractor to fill in)*	**Total/ 12 months –** *(Contractor to fill in)*
*Call out Fee which includes first hour on site and travelling fee (after hours, weekends and holidays)			
Technician	25	R	R
Assistant/semi-skilled labor	25	R	R
Labor Sub-Total B			
		***Total call out fee**	R

Diagnostic with repairs table:

(time below includes the total time to do diagnostics and repairs for each failure mode and completely resolve the issues leaving the infrastructure totally correctly functional. Note the rates must include all required tools, special tools, software and hardware require to completely resolve the failure)

Item #	**Call description**	**Estimated time to repair/reset (hrs.) as logged in the ACSA system**	**Budgeted Quantity**	**Contractor time to repair: (Contractor to fill in)**	**Rate per hour (after hours): (Contractor to fill in)**	**Total: qty X contractor time to repair X rate (Contractor to fill in)**
1	**Damage belt (Splicing)**	**2**	**20**			
2	**Brocken belt (Replacement)**	**2**	**30**			
3	**In feeder belt Brocken check-in security**	**2**	**30**			
4	**Conveyor belt not moving Conveyor belt stopping and starting intermittently**	**1**	**10**			
5	**Sorter wheels worn out**	**2**	**5**			

6	**In feeder belt switch faulty**	**0.5**	**35**			
7	**Belt at sortation area lost tracking**	**1**	**37**			
8	**Damaged/loose cables**	**0.5**	**30**			
9	**Faulty siren beacon at check in island**	**0.5**	**25**			
10	**Operation panel at check-in area faulty**	**1**	**24**			
11	**Passenger panel at check-in area faulty**	**1**	**20**			
12	**Faulty motor**	**1**	**10**			
13	**Damaged carousel flap**	**2**	**5**			
14	**Damaged guide Bearings**	**2**	**15**			
15	**Damaged pulley**	**2**	**5**			
16	**Roller shutter door faulty**	**1**	**5**			
17	**Power Related faults**	**2**	**10**			
19	**Inverter fault**	**2**	**5**			
20	**Sorter Tray faults**	**2**	**15**			
21	**Substation 9 cooling system faulty**	**2**	**6**			
23	**Faulty/damaged Motor Bearings**	**2**	**18**			
25	**Carousel Wheels worn out**	**2**	**5**			
****Total Diagnostic and repairs**					**R**	
Sub-total B (*Call out fee + **Diagnostic and repair)					**R**	

) SPARES and MARK -UP

***Spares** will be managed by the contractor using ACSA's manual inventory management system.
The manual inventory management system will include but not limited to;

- Conducting and submission of monthly and quarterly stock count to the Service Manager by the contractor,
- Keeping up-to-date inventory cards by the contractor,
- Management of spares movement by the contractor,
- Keeping an up-to-date inventory file (purchase order and request, work order, delivery note, stock count records, etc.).
- Ensure safety and security of the storeroom by the contractor as per space given to them.
- The space for spare storage shall be allocated by ACSA to the contractor and can be a shared space as per space availability.
- Management of inventory by the contractor as per ACSA inventory procedure

Spares:

Description	Total (excluding VAT)
Subtotal C- provisional sum for spares	**R 5 400 000-00**

Bidder to complete

Value of Item or Services	****Mark-up *(Contractor to fill in) *Y****
R0 - R2,000	%
R2,001 - R5,000	%
R5,001 - R10,000	%
R10,001 - R50,000	%

***The mark-up will be applicable to the total of the third-party quotation not on a single line items in a quotation*.

Spares and sub – contractors work will be charged at cost plus mark-up. VAT shall not form part of mark-up calculations. Cost shall be net cost (excluding VAT) of parts supplied to site with all discounts deducted.

The spares list must be prepared based on tenderers best current spares prices (excl. VAT). The actual costs of spares will be reimbursed on submission of invoices and suppliers supporting documents.

Capex Provision

- The service provider will be required, from time to time, to replace equipment deemed obsolete and due for replacement through the Capex provisions in the contract.

When Capex is used, ACSA's policy on capitalization, including any required warranties and bonds, must be followed.

Carousel replacement budget

Items	**Quantity**	**UOM**	**Rate**	**Amount**
ACSA Permits	5	No.	R 410.00	R 2 050.00
Site Establishment &Safety file Compliance documents	1	No.	R 35 000.00	R 35 000.00
Professional services	1	No.	R 3 814 98.00	R 3 814 198.00
SUB-TOTAL	**SUM**			**R 3 851 248.00**
Supply and delivery of Mechanical Equipment (Incl. arrivals and departure carousels)	12			R 1 214 000.00
Installation of Mechanical equipment	12			R 4 856 000.00
SUB-TOTAL				**R 6 070 000.00**
Provision for the Supply and Installation for the electronics controls for the BHS carousels	12			R 640 000.00
SUB-TOTAL				**R 640 000.00**
Provision for the Supply and delivery for the Electrical components for the Carousels system (Incl. arrivals and departure carousels)	12			R 1 683 000.00
Installation of Electrical equipment (Incl. arrivals and departure carousels)	12			R 469 745.00
SUB-TOTAL	**SUM**			**R 2 152 745.00**

GRAND TOTAL	**R 12 713 993.00**

TABLE D

Description	Total (excluding VAT)
Carousel, Ball tables and ULDs refurbishment and replacements	**R12 713 993.00**

Mark-up (third party procured items/services)

TABLE E

DESCRIPTION	COST
Sub-Total A: Administrative and Fixed Preventative maintenance	R
Sub-total B (*Call out fee + **Diagnostic and repair)	R
TOTAL Excl. VAT for Year 1	R

TABLE F

Fixed Cost Period	Annual escalation	Rand value (excl. VAT)	Rand value (incl. VAT)
Year 1	0%	R	R
Year 2	Years 1 plus 6%	R	R
Year 3	Years 2 plus 6%	R	R
Year 4	Years 3 plus 6%	R	R
Year 5	Years 4 plus 6%	R	R
SUB-TOTAL		R	R

Contract value

Below, the guide that must be used in estimating the contract value. This amount must be reported as the Contract Value in the corresponding schedules. Tenderers are reminded that this amount is for illustrative purposes only and that ACSA will not be under any obligation to expend the full or any portion of this amount. Monthly contract expenditure will be strictly calculated according to the Activity Schedule as provided above.

TABLE G

Fixed Cost	Annual escalation	Rand value (excl. VAT)
SUB-TOTAL TABLE F		**R**
Sub-total C- Provisional sum for spares		R 5 400 000.00
Sub-total D- Refurbishment Projects for BHS controls.		R 12 713 993.00
	Total excluding VAT	
	VAT @ 16%	
	Total including VAT	
Grand Total (to be carried to the Form of Offer and Acceptance C 1.1)		**R**

The grand total value should be aligned with the form of offer.

PART C3: EMPLOYER'S SERVICE INFORMATION

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C3.1	*Employer*'s Service Information	9- 121
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C3: EMPLOYER'S SERVICE INFORMATION

Contents

6 Description of the *service*

6.1 Executive overview

The objective is to maintain the serviceability of Baggage handling system mechanical conveyors and carousels at Cape Town International Airport in a sustainable manner at the lowest operating and maintenance costs while ensuring compliance to general safety and aviation related legislation.

The Contractor will maintain the Baggage handling system mechanical conveyors and carousels at Cape Town International Airport as minimum described in the Overview of the works below. The Contractor will be appointed directly by the Airports Company of South Africa.

Onus is on the contractor to provide assurance that competent persons would be carrying out all tasks in accordance with all the applicable standards, OEM requirements, procedures, regulations and legislative requirements. Note there are interfaces with the Baggage handling system software which are maintained by the ACSA_IT contractor and other stakeholders including SITA.

6.2 Detailed Scope of Works

Cape Town International Airport Baggage handling system mechanical conveyors amongst other comprises of:

***this excludes all the Baggage handling system and Check-in counters controls see annexure**

Baggage Hall & Check in Counters
Conveyor Belts Line 1 -8 - including OOG • Power supply and Isolators • PLC Substation 1 – 10 electrical components i.e. Motor Contactors & 3 Phase Relays, Circuit Breakers, Transformer • Pulleys • Bearings • Induction Motors and gearbox • Belts • Guides and Structural Support Conveyor • Path finder conveyor • ATR Air blowers and Filters • OOG Roller Shutter Doors & Junction boxes • Structural staircases, walkway and cat ladders • UDL Staging area structure
Induction lines & MCS • Pulleys • Bearings • Induction Motors and gearbox • Belts • Guides and Structural Support Conveyor

SORTER

- Power Supply and Isolators
- Main Control Panel for LIM's, Contactors and Circuit breakers
- Fasteners and Dzues
- Cover flaps
- Guide and Ride Wheels, Bushes
- Bus Bar and Power rails
- Bus Bar Collectors and Brushes
- Linear Induction motors (LIM) Motors
- LIM cooling Fan and FINs
- Tray Cassette assembly
- Electrical Motor Tipper Tray and Power Cables
- Tray Pivot/tipping Arms
- Sorter Steel Track covers
- Sorter Track and Carriage wheel running surface

BHS- Domestic and International Carousel

- Power supply and electrical components i.e. Motor Contactors & 3 Phase Relays, Circuit Breakers,
- Guides rails and Carousel Structure
- Drive Transmission Motors
- Chain links
- Hydraulic packs
- Roller shutter Gates and Draft Curtains
- Ball Tables
- In feeder Belts
- Rollers and Pulleys
- Slates ,Brushes and Wheels
- Tilted and Flat Carriers
- Cushion bumpers

CHUTES

- Power supply and electrical components i.e. Motor Contactors & 3 Phase Relays, Circuit Breakers,
- Electrical Geared Motors
- Chutes Structure
- Bumper Cushions
- Support hangers and Plastic Curtains
- Roller beds

CHECK IN COUNTERS & SECURITY CHECK POINTS

- Power supply and electrical components i.e. Motor Contactors & 3 Phase Relays, Circuit Breakers,
- Drive Transmission Motors
- Rollers and Pulleys
- Bearings
- Roller shutter Gates and Draft Curtains
- Roller Shutter Junction boxes
- Belts – Weight Scale , Dispatch and Collector
- Security Check Point Trays – Domestic and International

Equipment Life Span

- The life span of the Baggage handling conveyors is 10 years and carousels is 24 years (refer to **Annex C** for the list and life span)
- The list of equipment commissioning dates has been provided on **Annex B.**

OEM Requirements

The O.E.M recommended the below preventive maintenance for the Baggage handling conveyors and carousels:

Column Heading	Meaning
Asset Group	Baggage Handling Systems asset groups as defined above.
Activity	A short description of the maintenance activity to be performed.
Frequency	The code used to reflect the intervals between which maintenance activities will be performed. The convention used is: D = Daily, W = Weekly, M = Monthly, Y = Yearly

Asset Group	Activity	Frequency
Table - Ball Container	Daily Inspection	D
	Monthly Maintenance	M
Chute - Baggage	Daily Inspection	D
	Monthly Maintenance	M
Conveyor - Belt	Daily Inspection	D
	Weekly Maintenance	W
	Three Monthly Maintenance	3M
	Yearly Maintenance	Y
Conveyor - Carousel	Daily Inspection	D
	Weekly Maintenance	W
	Three Monthly Maintenance	3M
	Yearly Maintenance	Y
Conveyor - Deflector / Plough	Daily Inspection	D
	Weekly Maintenance	W

Asset Group	Activity	Frequency
	Monthly Maintenance	M
	Three Monthly Maintenance	3M
Conveyor - Roller	Daily Inspection	D
	Weekly Maintenance	W
	Monthly Maintenance	M
	Three Monthly Maintenance	3M
Conveyor - Sorter	Daily Inspection	D
	Weekly Maintenance	W
	Monthly Maintenance	M
	Three Monthly Maintenance	3M
Elevator - Baggage	Daily Inspection	D
	Weekly Maintenance	W
	Monthly Maintenance	M
	Three Monthly Maintenance	3M
Scanner - Label	Daily Inspection	D
	Monthly Maintenance	M
Scale	Daily Inspection	D
	Six Monthly Inspection	6M
	Yearly Verification	Y

Condition of the plant

The maintenance history of the equipment has been logged with ACSA Integrated maintenance centre.

- The list breakdowns and faults experienced and the estimated time for repair on the Baggage handling conveyors and carousels are listed on **Annexure H.**
- The preventative maintenance previously performed on the Baggage handling conveyors and carousels are listed on **Annex F**, for the actual work orders with tasks, ACSA Integrated maintenance centre can be contacted to issue actual or, the below link can also be used to access these records:
- A sample of root cause analysis on the Baggage handling conveyors and carousels has been attached on **Annex G**. Also, the root cause analysis must be performed, and the Root cause analysis form completed by the contractor and handed over to ACSA service manager after each breakdown.

Site Information

- The Baggage handling conveyors and carousels are located at on the 2nd floor of Central Terminal Building and airside (baggage hall) at Cape Town International Airport (refer to Annexure A for a full list of equipment).
- The airport layout and site information has been provided on **Annex D**.

Minimum work requirements and Legislations:

Maintenance of the Baggage handling conveyors and carousels shall as minimum conform to the following Procedure and or other legislative references (Gazetted Standards or OHS Regulations):

- Electrical installation Regulation of 2009
- General Machinery Regulation and Driven Machinery Regulations
- SANS10142, SANS1173, SANS968, SANS971, SANS1669, SANS1257 & SANS1313.
- ACSA maintenance procedure for Baggage handling system- D080 008M as provided in **Annex N.**
- The preventative maintenance previously performed on the Baggage handling conveyors and carousels are listed on **Annex F**, for the actual work orders, ACSA Integrated maintenance centre can be contacted OR the below link can also be used to access these records:
  https://airports-my.sharepoint.com/:f:/r/personal/busisiwe_mthimunye_airports_co_za/Documents/Lebogang/OLD?csf=1&web=1&e=Voaky6

Note: above is the list of minimum regulations and legislative requirements that the contractor needs to adhere to as mandatory requirements (**work should be carried out by competent people as prescribed in the law and shall be auditable by the employer at any given time**)

Access to site

- Airside training and permit should be completed and issued before accessing airside and commencement of work.
- AVOP training and permit should be completed and issued before the commencement of work for personnel driving required to drive on airside.
- Permission must be obtained from ACSA operations and IMC before an equipment can handed over to the contractor for works and such arrangements must be done prior and timeously.

Site Restrictions

- Airside training and permit should be completed and issued before accessing airside and commencement of work.
- AVOP training and permit should be completed and issued before the commencement of work for personnel driving required to drive on airside
- The safety file should be completed and approved by the safety department before commencement of work. The safety file is a living document and must be continuously updated with all requirement as specified by law. Also, will be auditable from time to time.
- Personal Protective Equipment should be issued before the commencement of work.

Risk
The are some of the risks identified but not limited to the below and to **Annex E** list.

Current Guarantees and warrantees to be maintained:

- Annex W - N/A

Employer's requirements for the *service*

The Contractor will be fully responsible for meeting all requirements in this document regarding the Works.

For each piece of equipment, all work will be carried out to standards as required by the Original Equipment Manufacturer (OEM) as well as any applicable governing law and/or regulations. Where OEM standards differ

from those required by this document the more stringent requirement shall apply. The Contractor will be fully responsible for obtaining (and keeping up to date with) said requirements.

Where, such a need is mutually agreed between the Contractor and the Employer, the Employer shall put in place a “Hotline” (i.e. 24-hour telephonic support by product specialist) agreement with the relevant OEM. In this event the Contractor shall be responsible that such Hotline services are always operational and available, but all costs in this regard shall be carried by the Employer. The Contractor shall NOT add any mark-up to any Hotline related expenses. A “Hotline” agreement shall typically ensure that problems relating to system controls are promptly rectified. It is intended that Hotline agreements will be in place with OEMs for PLC related controls and computerised control systems.

The Contractor will be responsible for providing staff which are sufficiently skilled and qualified for successful execution of the works. The Contractor shall comply with the Minimum Staffing Schedule always – as stipulated in the Annexes. This may be amended by mutual arrangement between the Employer and the Contractor from time to time.

The Contractor shall always remain responsible to ensure that the on-site staff compliment and maintenance regime is sufficient to maintain the service levels and system performance indicators as stipulated in the Annexes. Should the Contractor not be able to maintain adequate system performance indicators due to constraints caused by the Employer, it shall be timeously reported, in writing, to the Contract Manager. Refer to the Annexes for the required system performance indicators.

The Contractor will ensure that his/her staff compliment is of a sufficient quantity to allow for uninterrupted supply of labour in the event of his/her staff taking sick leave, paid leave and will allow for all staff related eventualities.

The Contractor shall continuously ensure that all staff is suitable, able and competent for the duties required of them. The Contractor shall continuously ensure that all staff is knowledgeable and dependable in Baggage handling conveyors and carousels maintenance activities/procedures in the area. The Contractor shall further ensure that any staff member reasonably suspected of partaking in criminal activities is immediately removed from site and his permit returned to and/or cancelled at the ACSA Permit Office.

All work shall be performed within the required Response Times – as stipulated in the Annexes. Any breakdown impacting on operations shall be attended-to until restored to good reliable condition. No breakdown may be left unattended or incomplete for the next day or shift. All repair work shall carry a defect free be guaranteed for a period of 3 months after completion of work.

All work shall be charged according to the Activity Schedule. However, no labour shall be charged for any non-scheduled work, repair work or other work when carried out by a scheduled maintenance shift.

The Contractor will be responsible for keeping spares levels up to a sufficient quantity and standard as to comply with the requirements of this contract and will charge the Employer accordingly. All spares will be charged according to the Activity Schedule. The Contractor shall arrange for the spares room. The Contractor shall keep the spares room in a neat and clean state and an updated spares list will always be available on-site. Spares will be neatly arranged and easily locatable via an appropriate index on the spares list. Wherever practicable, a notice will be placed on the rack, next to the spare part, as to where the part is used in the installation. A resource will be dedicated to ensuring that spares are effectively managed and scrapped parts and waste removed from site. The space for spare storage shall be allocated by ACSA to the contractor and can be a shared space as per space availability.

The Contractor will be responsible for holding all tools and/or special equipment that might be required for the execution of the works, either on site or on their premises in order to comply with the Response Time requirements of this contract. Any exclusion to the above should be clearly communicated in the returnable schedules when submitting the tender.

The Contractor shall ensure that, unless a special arrangement is made with the Service Manager, all senior staff members and on-site support staff is always immediately reachable via cell phone.

The Contractor shall ensure that all maintenance staff are issued with uniforms that will comply with a minimum requirement as agreed with the Service Manager from time to time. Current airport requirements are safety shoes, track suit and a uniquely numbered reflective jacket (for easy identification via CCTV).

Location of the works

The Works are located at Cape Town International Airport at various locations – mostly in controlled areas. It is crucial for the Contractor to note that Cape Town International Airport is a National Key Point and governed as such.

6.3 Interpretation and terminology

The following abbreviations are used in this Service Information:

Abbreviation	Meaning given to the abbreviation
ACSA	Airports Company South Africa
CTIA	Cape Town International Airport
OEM	Original Equipment Manufacturer
PPE	Personal Protective Equipment
CCTV	Closed Circuit Television
RCA	Root Cause Analysis
OHSACT	Occupational Health and Safety Act No. 85 of 1993
SANS	South African National Standard
SABS	South African Bureau of Standards
SHE-File	Safety and Healthy File
CTB	Central Terminal Building
SOB	Southern Office Building
BHS	Baggage Handling system

7 Management strategy and start up.

7.1 The *Contractor*'s plan for the *service*

The Contractor's plan for the service will informs both the employer and service manager the contractor's detailed intention on how the contractor will provide the service. The plan shall consist of working methods as well as details of the resources, including the Equipment the contractor intends to use. This will enable the Service Manager to monitor the contractor performance and to access the adherence to KPI table.

The contractor plan should cover the following which should be submitted and attached on the NEC contract as **Annexure. The contract plan should be submitted for acceptance as per contract data requirements**

- The starting date and the end of the service period
- The order and timing of the work of the Employer and Others as last agreed with then by the Contractor or , if not agreed as stated in the service information
- Provision
    - Time risk allowances
    - Health and safety requirements and
    - The procedures set out in the contract
- The dates when, in order to provide the service in accordance with his plan, the contractor will need
    - Access to the Affected Property as stated in the service information
    - Acceptances
    - Plan and maintenance, equipment and other things to be provided by the employer and
    - Information from Others
- For each Operational and Resources Plan Proposal, a statement of how the contractor plans to do the work identifying the principal Equipment and other resources which he plans to use i.e **The** tenderer must submit a comprehensive proposal that shows **Operation Plan and Resource Plan Proposal** in the form of organogram
    - Resources to conduct both plan and corrective maintenance on the SLA and achieve the KPI in maintaining the BHS system i.e conveyors, chutes, carousels, and check in counter security check point mechanical equipment.
    - The proposal should not be limited to manpower only it should cover equipment -instruments and tools
    - The tender must submit organograms for all resources identified under the operation plan to enable the service provider to achieve the KPI and SLA.
- Other information which the service information requires the contractor to show on a plan submitted for acceptance

The service provider should consider below on their service plan for reporting and ensuring to meet the KPI requirements

Operational hours

Normal airport operational hours shall be **from 04:00 to 00:20** for every day of the year but will be confirmed/amended by the Service Manager from time to time. Down-time for BHS system for routine maintenance shall be arranged with the Operations Manager/ Service Manager and relevant stakeholders to suit airport operations. The Contractor must allow for sufficient after-hours work in order for scheduled work not to interfere with airport operations. For any scheduled work/plan maintenance that is carried outside the normal working hours will not be charged against ACSA as it falls under price activity schedule.

Response Times

The Contractor must at all times comply with the following:

Response time shall be calculated as the time taken from the fault being reported (via IMC, 3rd party, or other) to the time the fault is cleared, the relevant device becomes available for use.

100% of all after hour breakdowns shall be responded to within 15 minutes. Response time shall be measured as the time taken from reporting the call, to the technician arriving at the relevant piece of equipment.

Any breakdown impacting on operations shall be attended-to until restored to good reliable condition. This implies that no breakdown may be left unattended or incomplete for the next day or shift.

ACSA will hold the Contractor liable for any costs incurred by any party as a result of negligence or unreasonable poor performance by the Contractor including excessive time taken to effect repairs.

Closure Duration

Closure duration is defined as the time elapsed since the maintenance call was logged at the IMC to the time the contractor reports to the IMC that the problem has been resolved.

95% of all breakdowns will be restored to good working condition within 3 Hours depending on the complexity of the failure and unless a special agreement exists with the employer's agent. Include escalation procedure. The contractor must report any defect immediately to ACSA.

In the event of a BHS system or its related component being unavailable, it will be the sole responsibility of the Contractor to advise the Infrastructure Monitoring Control (IMC) as well as Contract Manager immediately.

Defect free liability period

Defect free liability period – preventative maintenance	The defect free period will be no less than the interval between preventative maintenance intervals.
Defect free liability period – corrective or breakdown maintenance	The defect free period will be no less than 90 days.
Defect free liability period – project work	The defect free period will be no less than 12 months or as per OEM specifications.

Maintenance Management

Contractor is expected to adhere to a 90/10 planned vs. unplanned maintenance split on monthly basis.

On arrival to site (airport) to attend to a callout, a contractor need to notify IMC (ACSA Helpdesk at CIAHELPDESK@airports.co.zaor +27 (0) 21 937 1257) and also notify IMC (ACSA Helpdesk) on completion of the repair work before leaving the site (airport).

Checklists and Logbooks

- Technical checklists and logbooks to be kept and verified by ACSA personnel as per OEM or SANS standard.

- Audits will be performed on ad hoc basis to assess quality of checklists and logbooks.

DAR (Data Analysis and Reporting)

- Weekly and Monthly feedback report to be compiled and submitted to ACSA mechanical maintenance department stipulating per area cost breakdown, findings and recommendations. This report should state number of failures, availability and reliability of the particular equipment. Daily reports to be available on request.
- If an incident or deviation occurs, an RCA (Root Cause Analysis) investigation to be carried out along with ACSA mechanical maintenance personnel to determine the root cause and corrective actions required to bring the physical asset back on line.
- A technical investigation report of any incident should be submitted within 24 hours to ACSA Mechanical Maintenance Department.
- Inventory control audits reports to be submitted on monthly basis.

A management report that consists of a task list should be submitted for all repairs and replacements and not just an invoice.

Evaluation

Contractors will be evaluated on the following:

Safety & Housekeeping	Safety warning sign in place
	Isolation/ cordon/ Barricading off area
	Apology sign in place
	Store room
	Control Room
Security	ID card always clearly visible
	Clear sign of the name of company
	Low worker turn over
Reliability	No repeat incident on equipment
	Adherence to SLAs
	Availability of equipment as per contract
	Keep agreed spares available
	Staff complete as per contract schedule
	Competency of staff
Finance	Quotes must submitted within specific timeframe and assessment as per contract data will apply
	Invoices submitted to finance department on time and with correct order numbers
	Cost control and efficiency improvements
	Attach third party quotation/invoice for any third party financial transaction
	Submit financial statements on monthly basis

Uniforms	To be properly dressed in overalls with company name on the back for identification. Must be clearly visible and neat.
Quality of workmanship	Work to be done according to correct engineering practices and standards.
	Workmanship to be of a good quality
Submission of safety documents to ACSA safety department on monthly basis	Adhering to OHS Act
	No safety incidents

Identification of Contractors On-Site

It is expected that contractors wear visible company uniform when entering the premises as a form of identification.

Continuous Improvement Program and the Computerised Maintenance Management System

It is hereby required that the Contractor ensures that a continuous improvement program is in place. For example, the criteria below may be used but not only limited to the items mentioned below. Contract to provide a detailed annual proposal to the employer and the implementation thereof will be at employer's discretion.

1. An improvement in the availability of systems
2. An improvement on the maximum number of short ships attained
3. An improvement on the in-system time
4. An improvement on the minimization of spares holding (for example by increasing Mean Time to Failure of components) Etc.

As mentioned above this list is not comprehensive and it is only used for illustrative purposes. Upon implementation of the contract the Employer and the Contractor shall agree targets for the continuous improvement program.

It is important to note that continuous improvement will only apply to those items that meet minimum benchmarks. Continuous improvement initiatives shall be reviewed every quarter or when deemed necessary by the Employer or the Contractor.

ACSA has implemented a Computerised Maintenance Management System (CMMS). The Contractor shall take all reasonable actions to ensure that they facilitate successful implementation and execution of the CMMS work orders. The Contractor shall before each anniversary date of the Contract investigate available CMMS data and report if savings can be achieved on the Contract for the next year. This may also include savings on the Contract monthly maintenance amount.

Improvement Initiatives

ACSA, CTIA, encourages a practice of continual improvement and will welcome any proposal that will reduce the incidence of specific problems or occurrences improve work methodologies and also are of financial benefit to the organisation.

A contractor is required/ expected to present at least one (1) improvement initiatives twice a year.

7.2 Management meetings

The Contractor will be expected to attend meetings relating to Safety, maintenance, contract management and other issues that may arise from time to time on monthly basis or any other prescribed terms. As far as is practicable, the Contractor will make all required persons available for these meetings.

The Contractor shall not submit claims for payment for staff attending any of these meetings. There will be minutes kept for this meeting for record purposes.

Regular meetings of a general nature may be convened and chaired by the *Service Manager* as follows:

Title and purpose	Approximate time & interval	Location	Attendance by:
Safety audit	Monthly on last Thursday of every month at 10H00	SOB ACSA Admin offices	ACSA Safety Dept. and Contractor.
Risk register and compensation events	Monthly on last Thursday of every month at 10H00	SOB ACSA Admin offices	Employer and Contractor.
Overall contract progress and feedback	Monthly on last Thursday of every month at 10H00	SOB ACSA Admin offices	Employer and Contractor

Meetings of a specialist nature may be convened as specified elsewhere in this Service Information or if not so specified by persons and at times and locations to suit the Parties, the nature and the progress of the *service*. Records of these meetings shall be submitted to the *Service Manager* by the person convening the meeting within five days of the meeting.

All meetings shall be recorded using minutes or a register prepared and circulated by the person who convened the meeting. Such minutes or register shall not be used for the purpose of confirming actions or instructions under the contract as these shall be done separately by the person identified in the *conditions of contract* to carry out such actions or instructions.

7.3 *Contractor*'s management, supervision and key people

Human resources

The following minimum standards shall apply to resourcing:

1. Regarding a first line response to any breakdown of the BHS system. Taking into account current airport access control infrastructure and security arrangements and taking into account the physical layout of the plants, the Contractor shall ensure a sufficient quantity of staff in order to meet or exceed the Service Level Agreement as per **Annex I**

2. The rostered maintenance staff compliment shall be sufficient to perform all required preventative and reactive/breakdown maintenance for each month. Cost incurred by the contract should be covered by maintenance fees unless outside OEM maintenance specification or unless ad-hoc.

3. During operational hours, the Contractor must have sufficient personnel to successfully attend to at least two simultaneous breakdowns as per contract requirements.

4. During operational hours, the Contractor must have Site Manager who:
    a) Is suitably qualified and experienced to resolve breakdowns and system stoppages of a nature that would require a person with BHS system knowledge, Electronics and Mechanical training.

b) Is suitably qualified and experienced to work on any electrical panels and mechanical components.
c) Is able to successfully interact with Fire Protection Service Provider and OEM “hotline” personnel.
d) Is of a level of seniority to successfully direct and manage Contractor staff and possible sub-contractors when there is a breakdown and can successfully interact with airport operational staff and airport management.

5. The Contractor shall assume responsibility for resolving any issue that might be experienced from time to time with the BHS system. This will relate to any problem that might be experienced with the BHS system and its components.

6. As part of his duties the Contractor:
   a) Shall ensure that (at his cost) back-ups are current and available on site (including all required spares that might be necessary to effect restores).
   b) Shall ensure that other faults/issues outside the scope of this contract but impacting on the BHS system are expedited with the relevant persons.
   c) Shall submit preliminary incidents reports to the ACSA Service Manager regarding the cause and resolution of faults within 24 hrs of each eventuality.
   d) Shall submit full incidents reports to the ACSA Service Manager regarding the cause and resolution of faults within 48 hrs of each eventuality after the incident has been resolved.
   e) Shall maintain an up to date BHS system configuration drawing and keep it readily available on site.
   f) Shall, within reason, remain up to date with changes to the ACSA- BHS system and build professional work relationships with all relevant parties, whether it be OEM or ACSA contractors or other.

All the information to the above breakdowns and stoppages exceeding agreed response times shall be logged with the ACSA IMC (Infrastructure Monitoring and Control department) at (021) 937 1257 or email CIAHELPDESK@airports.co.za

Conversely once the problem has been resolved the contractor will advise the IMC (Infrastructure Monitoring and Control department) at (021) 937 1257

7.4 Provision of bonds and guarantees

The form in which a bond or guarantee required by the *conditions of contract* is to be provided by the *Contractor* is given in Part 1 Agreements and Contract Data, document C1.4, Sureties.

7.5 Documentation control

All contractual communications will be in the form of properly compiled letters or forms attached to e-mails and not as a message in the e mail itself.

The contractor will submit maintenance and inspection reports after each service in report format agreed between the service manager and the contractor.

A list of attainable replacements parts, by part number shall be furnished when requested by Service Manager and the contractor will be responsible to maintain an up-to-date inventory of commonly replaced spare parts by parts number.

7.6 Invoicing and payment

The contractor will submit financial statement on monthly basis. On the last day of each month, the Service Provider shall deliver original invoices to the Company in respect of the Services. The invoice must contain the following minimum information and/or be substantiated by the following documentation:

- amount due in respect of VAT;
- the Service Provider's VAT registration number;
- such additional information and/or documentation as the Company may reasonably require from time to time;

Payment will take place within 30 (Thirty) Business Days after receipt by the Company of a duly prepared original invoice.

All payments shall be made by electronic transfer into the Service Provider's bank account, initially being the account set out in (Contract Data) hereto.

The Company may set off any amounts due and payable from the Service Provider pursuant to the terms of this Agreement as per **Annex I** – Low service damages against any amounts payable by the Company to the Service Provider on any invoice. If the amounts payable by the Service Provider to the Company exceed the amounts payable by the Company to the Service Provider pursuant to an outstanding invoice under this Agreement, then, at the Company's option, the Service Provider shall either issue a credit note for the net amount which the Company may set off against any other invoices rendered by the Service Provider, or promptly pay the amount to the Company.

Within one week of receiving a payment certificate from the Service Manager in terms of core clause 51.1, the Contractor provides the Employer with a tax invoice showing the amount due for payment equal to that stated in the Service Manager's payment certificate.

The Contractor shall address the tax invoice to
ACSA Employee Name: _____
and include on each invoice the following information:

Name and address of the Contractor and the Service Manager;
The contract number and title;
Contractor's VAT registration number;
The Employer's VAT registration number **4930138393;**
Description of service provided for each item invoiced based on the Price List;
Total amount invoiced excluding VAT, the VAT and the invoiced amount including VAT;
(add other as required)

Electronic payments

The Contractor should arrange with ACSA's finance department for making all payments electronically

7.7 Contract change management

Use of standard forms
Management of the works

It is noted that:
a) The required labour resources and skills for this contract is prescribed in detail and will be a measure in calculating the monthly contract fee. The contractor is fully responsible to ensure that labour resources remain adequate in order to maintain required service levels and system performance levels as prescribed in Section 6 and 7.1 "The contractor's plan for the service". Only in the event where

ACSA prescribes certain additions to the labour force (over and above to what is already prescribed), will that particular labour resource be included as a measurable item in the Activity Schedule.

b) The prices per activity are based on the total "package" and should one activity be removed from the contract scope the other prices will be reviewed by the Contractor as well.
c) Personal computers will be purchased by the contractor for administration of the contract.
d) Provisional parking fees will be made, if the contractor's staff are utilising the ACSA public parking.
e) The contractor to pay telephone costs, if utilising any telephone linked to ACSA telephone network.
f) The contract to provide own computers and administration material required to operate during the duration of this contract.
g) The contractor to pay for own office rental fees, if the contractor's staff are utilising the ACSA office areas.

Format of communications

Work instructions, daily check sheets, monthly maintenance reports, inventory reports, breakdown reports, exception reports, etc. will all be in a format as agreed with the Service Manager.

Incidents and Events Reports

The contractor shall conduct RCA (root cause analysis) for incidents and events encountered on the infrastructure and submit a detail technical incident report within 48hrs.

7.8 Records of Defined Cost to be kept by the *Contractor*

Daily records

The Contractor shall keep accurate daily records of staff attendance, maintenance work, safety inspections and exception reports. Records shall be kept on site and will be available for scrutiny by the Service Manager at any time. All records shall be in a format as agreed with the Service Manager.

The Contractor shall keep in a safe place every statutory certification record book detailing inspection and test, maintenance, examination and any related incidents. These record sheets must be stored for the duration of the contract and should be available for inspection at any time. **The lack of complete history file will result in immediate cancellation of the contract**

Monthly reports

When invoicing, the Contractor shall ensure that all required reports for the corresponding month are attached to the monthly invoice. This will include monthly reports on but not limited to:

1. System availability (averaged per week)
2. Maintenance work (including % of scheduled maintenance work completed)
3. Daily checks performed
4. Maintenance plan for the next month
5. The latest spares inventory
6. Assets register up to date including equipment data
7. Root cause analysis records
8. Safety/Environmental or legislative issues and compliance
9. Outstanding maintenance/contractual issues

The contractor shall keep copies of all reports for at least 3 years. All reports shall be in a format as agreed with the Service Manager from time to time. **Further if the information provided is deemed insufficient Service Manager/Contract manager has the right to withhold the monthly fee until the sufficient information is provided.**

7.9 Insurance provided by the *Employer*

It is important that the Contractor recognises that his risks include those shown in C1.4. Consequently, even if such insurance are effected by the Employer, the Contractor should satisfy himself as to the adequacy of the policy and cover.

The Contractor should inform the Service Manager of any discrepancy between the Employer-provided insurances as stated in the Contract Data.

7.10 Training workshops and technology transfer

The contractor will perform on job training workshops when required, as well as any obligation for technology transfer being included as part of the service or at the end of the service period.
Training of ACSA staff and/or other stakeholders on BHS system, and their Components and its operation
- Providing of system data and/or statistics to ACSA
- Recommending improvements on maintenance procedures
- Recommending improvements on operational procedures
- Co-operating with ACSA Security relating to security issues

The ACSA Service Manager may instruct operational and works procedures to the Contractor as might be required from time to time. The Contractor will instruct his/her staff accordingly and implement measures to ensure that these procedures are strictly adhered to.

7.11 Design and supply of Equipment

The Contractor shall ensure that the design is fit for the purpose intended. As far as applicable to maintenance and operations, the design will be in accordance with the mutually agreed specifications.

The *Contractor* is still liable if, after having made the equipment to details have been accepted, it fails because it did not comply with the Service Information. Failure to comply gives the Service Manager the right, but not the obligation, to reject the design.

7.12 Things provided at the end of the *service period* for the *Employer*'s use

7.12.1 Equipment

The clause requires the Contractor to return to the Employer at the end of the service period things which have been provided by the Employer for the Contractor's use i.e. The inventory materials and spares that were purchased by the Employer during the tenure of the contract should be returned provided the contractor still holds some in stock and any other equipment that was purchased by the Employer.

7.12.2 Information and other things

The Contractor grants to the Employer, with effect from the starting date or, in the case of documents or other matters not yet in existence, with effect from the creation thereof (and notwithstanding the Completion or termination of this contract),
- An irrevocable royalty-free non-exclusive license to use all of the documents provided to Provide the Services (including, but not limited to calculations, computer programmes and other software, drawings,

manuals, models and other documents of a technical nature), for any purpose whatsoever, including for the purpose of operating, repairing, maintaining, dismantling, re-assembling and making adjustments to all parts of the Services. The Contractor procures that each Subcontractor executes all and any further documents and takes all and any other actions as may be required in order to give effect to this license.
- After the term service, the contractor shall return all valid permits to the Service Manager including the permits of all contractor staff that had service terminated.

8 Health and safety, the environment and quality assurance

8.1 Health and safety risk management

The Contractor shall comply with the health and safety requirements contained under C1.3: Occupational Health and Safety Agreement of this Service Information.

Addition to the above the **Annexes J and U** will be applicable

8.2 Environmental constraints and management

The Contractor shall comply with the environmental criteria and constraints stated in below including **Annex L**:

The Contractor will keep noise and dust levels to a minimum. At no time shall his/her work result in nuisance, interference or danger to the public or any other person working at the Airport.

At no time shall the Contractor:

- Allow any pollutive or toxic substance to be released into the air or storm water systems
- Interfere with, or put at risk, the functionality of any system or service
- Cause a fire or safety hazard

8.3 Quality assurance requirements

Quality plans and control

All work must be executed in accordance with prevailing industry norms and standards relating to quality. In this regard, the Contractor will be expected to draft quality plans for the Service Manager from time to time. Emphasis must be on improving system reliability and on ensuring that rostered maintenance work is indeed performed as and when required.

9 Procurement

Preferential procurement procedures Requirements
The Contractor will respect OEM warrantees to the Employer always when procuring spare parts, products or 3rd party services. It will be the Contractor's sole responsibility to ensure that OEM warranty requirements are adhered to always.

Where Contractors use or quote on spare parts of a lower quality than recommended by the OEM, or parts not recommended by the OEM, this shall be clearly indicated to the Service Manager on the quotation. This also implies that the Contractor must build relationships with the various key OEM's.

The Contractor must adhere to all airport requirements regarding fire, health and safety when procuring replacement conveyor belts and/or other equipment or spares.

No casual labour (i.e. “off the street” labour) may be employed by the Contractor unless pre-arranged with the Employer. Whenever this is required, the Contractor shall come to a suitable arrangement with the Employer regarding sourcing and screening of such individuals.

Spare Parts Requirements

The contractor shall provide spare parts list for repairs of each unit and ensures the supply of replacement parts are manufactured by the original equipment manufacturers(OEM) or parts are substantiated as equal by the Contractor and shall be approved by ACSA representative. The contractor shall have readily sufficient available spares for delivery and installation/repairs for BHS SYSTEM. Maintenance under this contract shall provide a constant, high-quality service to properly protect all equipment from deterioration and to provide constant peak performance of BHS resulting in a minimum of down time to the system.

A list of attainable replacements parts by part number shall be furnished every month and when requested by Service Manager and the contractor will be responsible to maintain an up-to-date inventory and charged ACSA accordingly. It should be noted the failure from the contractor to keep an up-to-date inventory it will be the responsibility of the service provider to source the required spares and be available within 24 Hours in case of breakdown or need for the spares. The contractor will be responsible for providing all the critical spares foreseeable for the use in the BHS Systems.

9.1 People

9.1.1 Minimum requirements of people employed

Refer to **Annex I**

9.1.2 BBBEE and preferencing scheme

1) In terms of the PPPFA Regulation 4, an organ of state can apply pre- qualifying criteria to advance certain designated groups
2) Only tenderers meeting the following criteria may submit proposals:
    - a tenderer having a stipulated minimum B-BBEE status level of contributor 1 or 2; and
    - an EME or QSE; and
    - a tenderer subcontracting a minimum of 30% to-
        (i) an EME or QSE which is at least 51% owned by black people; or
        (ii) an EME or QSE which is at least 51% owned by black people who are youth; or
        (iii) an EME or QSE which is at least 51% owned by black people who are women; or
        (iv) an EME or QSE which is at least 51% owned by black people with disabilities; or
        (v) an EME or QSE which is 51% owned by black people living in rural or underdeveloped areas or townships; or
        (vii) an EME or QSE which is at least 51% owned by black people who are military veterans;

3) By submitting a Proposal, the bidder certifies that the information and documents provided are true, correct and devoid of any fraudulent misrepresentations. ACSA reserves its right to seek further legal action in the event that the bidder fails to comply with this paragraph.
4) A bidder that fails to meet the above- mentioned pre-qualification criteria, will be disqualified.

9.2 Subcontracting

9.2.1 Preferred subcontractors

No part of this Contract may be subcontracted unless with written approval from the Employer. The Employer shall be under no obligation to grant such approval. Should any part of this Contract be subcontracted, the Contractor will be responsible for all Works (or failure to affect the Works) as if it was done so by the Contractor.

9.2.2 Subcontract documentation, and assessment of subcontract tenders

Refer to point 9.2.1

9.2.3 Limitations on subcontracting

Refer to point 9.2.1

9.2.4 Attendance on subcontractors

The contractor shall at his own cost provide the following general attendance on the subcontractors

- Access to the site and places where the subcontractor work is to be carried out, including the reasonable related requirements which belongs to the contractor
- Provision of water and lighting and all other requirements
- To be part of the monthly arranged meeting with the service manager

9.3 Plant and Materials

9.3.1 Specifications

Plant and Materials are defined as items intended to be included in the Affected Property. This refers to replacement of worn or defective parts, routine replacement as part of regular preventative maintenance and supply of spare parts. Therefore, it will be prerogative of the Service provider in consultation with Service Manager how repairs are carried out - can the item be fixed up or must it be replaced by a new one. All new parts should be replaced with original OEM prescribed parts and the quality should be in accordance with SABS, SANS, ANSI standards.

9.3.2 Correction of defects

Service provider in consultation with Service Manager will decide how repairs are carried out - can the item be fixed up or must it be replaced by a new one. The repairs or replacement must be in line with the service level agreement as stated in the service information **Annex I** to avoid low service damages. Further the defect free liability period will be applicable for any work that has been executed.

9.3.3 *Contractor*'s procurement of Plant and Materials

It will be the contractor's responsibility to make sure is to order, codify, expedite, freight, import, transport to the Affected Property and deliver and store procured parts and materials in the correct manner before installation. The Employer may require warranties from suppliers to be in favour of the Employer and not just to the Contractor. The Employer may also need schedules of vendor data for his own use after the end of the service period.

The Contractor will respect OEM warrantees to ACSA at all times when procuring spare parts, products or 3rd party services. It will be the Contractor's sole responsibility to ensure that OEM warranty requirements are adhered to at all times.

Where Contractors use or quote on spare parts of a lower quality than recommended by the OEM, or parts not recommended by the OEM, this shall be clearly indicated to the Service Manager on the quotation. This also implies that the Contractor will have to build relationships with the various key OEM's.
The Contractor must adhere to all airport requirements regarding fire, health and safety when procuring replacement parts and/or other equipment or spares.

9.3.4 Tests and inspections

The test and inspection will be applicable as per Annex K and including when inspections and tests are to be carried out by agents of the Employer for the new installation, reports and/or certificates must be submitted.

10 Working on the Affected Property

The Contractor must accept and respect the fact that the Airport is continuously undergoing construction and improvement and that a variety of stakeholders are involved in ACSA's business. Therefore, within reason and with prior arrangement with the Contractor, ACSA might require the following from time to time:

- Assisting with emergency repairs on equipment excluded from this Contract
- Assisting with operations relating to breakdowns on equipment excluded from this Contract
- **Re-scheduling of work to accommodate other contractors or operational requirements**
- Allowing access and providing assistance to OEM suppliers to correct defects on equipment and/or systems
- Checking on other contractors in order to reduce risk to BHS System
- Providing access to other contractors
- Attending co-ordination and planning meetings
- Removing rubble and/or equipment from site
- Training of ACSA staff and/or other stakeholders
- Co-operating with ACSA Security relating to security issues
- Use of guards and hoarding is priority to prevent accident on public patrons and stakeholders when working is taking place.
- Notification of works and hot works permits must be acquired from time to time if such works require the need.

The ACSA Service Manager may instruct operational and works procedures to the Contractor as might be required from time to time. The Contractor will instruct his/her staff accordingly and implement measures to ensure that these procedures are strictly adhered to.

10.1 *Employer*'s site entry and security control, permits, and site regulations

ACSA CTIA site is regarded as a National Key Point of Entry

The following National Key Point Requirements shall be adhered to:

- Criminal clearance check
- Zero alcohol tolerance
- Access to site through valid Permits
- Medical Clearance Certification

Service provider staff are not allowed to operate without valid permits at any time and Service Manager has a right to instruct the individuals contravening permit rules to leave the site and the service provider will be held accountable and this may lead to contract termination.

Cell phones and two-way radios
Use of cell phones on airside is not permitted unless the user is in possession of an appropriate Airport permit for the device. Cell phone permit issuing authority lies with the ACSA Security department.

The Contractor will not be allowed to use two-way radios at the Airport unless these radios are of the type, model and frequency range as approved by the ACSA IT department.

Protection of the public

The Contractor shall take special care in order not to harm or endanger the public in any way. Work shall be sufficiently hoarded and guarded in order to safeguard children and the general public from injury relating to machinery, work or other.

Barricades and lighting

Where hoarding, barricades or lighting is required in the execution of the Works, the Contractor shall provide same at his/her own expense. Hoarding, barricades and lighting shall comply with industry accepted norms and standards and may not be used for purposes of advertising or any other purpose than safeguarding the Works

10.2 People restrictions, hours of work, conduct and records

ACSA reserves the right to verify all personnel employed under this contract. Furthermore, ACSA reserves the right to order that personnel that are not adequately qualified or suited for this contract are removed from the site. **It is very important that the Contractor to note some restrictions and hours of work may apply to this contract to avoid operation interruption as a result, night work will be unavoidable and the Contractor should price accordingly**

10.3 Health and safety facilities on the Affected Property

Annex J and this part is in C1.3 in this contract

10.4 Environmental controls, fauna & flora

This matter has been dealt with in the general environmental requirements referred to **Annex L**

10.5 Cooperating with and obtaining acceptance of Others

The Contractor's duty is to co-operate with Others as expressed under the service information.

Where the Contractor's work may affect or interfere with the activities of the Employer or Others, it is important that interfaces in respect of physical location and timing are agreed by all parties and shown on the contractor's plan.

The exchange of information on health and safety matters is particularly important in order to comply with the law as well as with the contract.

10.6 Records of *Contractor*'s Equipment

The Contractor shall have all Tools and Special Equipment, necessary for the execution of the works, either on site or readily available at his/her premises and shall be recorded and certified as stipulated per table below. This cover owned or hired equipment's as long it will be used on site i.e Scaffolding, cherry pickers, Ladders, Gas testing equipment

Tool Description	QTY	Date Acquired	Date Return

10.7 Equipment provided by the *Employer*

The Contractor must keep record of all the Tools and Special Equipment including OEM Manuals provided by the employer and be returned in good working condition/ replaced if misplaced after the contract duration has expired.

10.8 Site services and facilities

10.8.1 Provided by the *Employer*

The Contractor shall provide everything else necessary for Providing the Service. The Employer will provide in the way of power, water, telecoms, ablutions, fire protection and lighting (etc)

10.8.2 Provided by the *Contractor*

The Contractor is to provide in the way of accommodation, storage, vehicles and office equipment for its employees and these are not regarded as any restrictions or minimum requirements concerning the Contractor's and shall provide everything else necessary for providing the Service. The facilities upon the expiry of the contract shall be left in conducive/clean state.

10.9 Control of noise, dust, water and waste

Refer to Annex L

10.10 Hook ups to existing works

NONE

10.11 Tests and inspections

Refer to **Annex K**

11 List of drawings

11.1 Drawings issued by the *Employer*

None of the drawings issued by the *Employer* however OEM manuals with drawings are available for referencing.

12 Task Order

Refer to clause X 19. This Option can be used when all the services to be provided under the contract are to be instructed by Task Order, or when other services are being provided under the contract, and Tasks are added as necessary. For example, Ad hoc works.

Task Order form for use when work within the *service* is instructed to be carried out within a stated period of time on a Task-by-Task basis Task Order No. **[●]** *service* .**[●]** To: **[●]**..... (*Contractor*)
I propose to instruct you to carry out the following task: Description **[●]** Starting date **[●]** Completion Date **[●]** Delay damages per week **[●]** Please submit your price and programme proposals below. Signed: Date (For *Employer*)

Total of Prices for items of work on the Price List (details attached)	R._____
Total of Prices for items of work not on the Price List (details attached).	R._____
Total of the Prices for this Task Order	R _____
The programme for the Task is	..... [ref] (attached)
Signed:	Date
(For *Contractor*)	

I accept the above price and programme and instruct you to carry out the Task
Signed: Date:
(For *Employer*)

13 ANNEXEXS TO C3 (Service Information)

Title	Annex number	Applicable or N/A
Schedule of Equipment	Annex A	Applicable
Equipment commissioning dates	Annex B	Applicable
Equipment life span	Annex C	Applicable
Site information	Annex D	Applicable
Risk assessment	Annex E	Applicable
Previous completed PMs	Annex F	Applicable
Root cause analysis	Annex G	Applicable
Estimated times for breakdowns/faults	Annex H	Applicable
Service Level Agreement	Annex I	Applicable
OHS Act Appointment by Contractor	Annex J	Applicable
Minimum Maintenance Programme	Annex K	Applicable
Environmental Terms and Conditions	Annex L	Applicable
Maintenance of Baggage handling systems Spares List	Annex M	Applicable
ACSA maintenance procedure for Baggage handling systems - D080 008M	Annex N	Applicable
Baggage handling systems – standard operating procedure	Annex O	Applicable
Maintenance of Baggage handling systems – Electrical lockout procedure	Annex P	Applicable
Cape Town International Airport – operating instruction for PLBs	Annex Q	Applicable
Baggage handling systems - Fire Emergency procedure	Annex R	Applicable
IMCC procedure	Annex S	Applicable
Internal and external factors outside the contractor's control	Annex T	Applicable
ACSA Mechanical Standardised Minimum: legal requirements and minimum competency requirements	Annex U	Applicable
ACSA Inventory management procedure	Annex V	Applicable
Guarantees and warrantees to be maintained	Annex W	N/A
Contract exclusion	Annex X	Applicable

ANNEX A

SCHEDULE OF EQUIPMENT

Equipment to be serviced and inspected comprises of:

Item	**Item Description**			**Location**
Baggage handling systems	**Manufacturer**	**Quantity**	**Make** **Model**	
Check-in counters mechanical conveyors	Van de lander	250	Straight & Curve conveyor belts	Central Terminal Building
Baggage sortation mechanical conveyors	Daifuku logan and Chiorino	217	Straight & Curve conveyor belts	Airside Baggage hall
Departure carousels	Daifuku logan and Chiorino	2	Carousel flaps	Airside Baggage hall
Domestic Arrival Carousels	Van de lander	6	Carousel flaps	Airside domestic arrivals
International Arrival Carousels	Van de lander	4	Carousel flaps	Airside International arrivals

ANNEX B

Equipment Commissioning Dates

	Check-in counters mechanical conveyors	Baggage sortation mechanical conveyors	Departure carousels	Domestic Arrival Carousels	International Arrival Carousels
2010	17-Mar				
2010					
2010		22-May			
2010			03-Jul		

ANNEX C

Equipment Life Span

Item	Location	Life Span
Baggage handling systems		
Check-in counters mechanical conveyors	Central Terminal Building	10
Baggage sortation mechanical conveyors	Airside Baggage hall	10
Departure carousels	Airside Baggage hall	24
Domestic Arrival Carousels	Airside domestic arrivals	24
International Arrival Carousels	Airside International arrivals	24

ANNEX D

Site Information

Description
The *services* are situated on the airside of Cape Town International Airport the services taking place on the aprons within the boundary limits of the Cape Town International Airport.

General Site Conditions

Temperature (Min - Max)	6ºC to 40ºC
Relative Humidity	15% to 75%
Wind	Varies daily
Height above Sea Level	46 m
Slope (Existing/Modified)	N/A
Seismic	N/A

ANNEX E

Risk assessment

OHS Risks

#	Department	Tenant / Sub-department	Activity / Task / Service	Risk Name	Risk Description	Control Measure Name	Control Measure Description
1	Operations: M&E	Mechanical	Maintenance of BHS & Check-in counters	Fire hazard, fatalities	Combustion due hydraulic oil heating up	SWP	Remove all flammable material (papers, plastic etc.) around the oil tank area
2	Operations: M&E	Mechanical	Maintenance of BHS & Check-in counters	Injuries, fatalities.	Oil spillage	Procedure	ARFF department on standby if required. Contractor to have a spill containment kit to contain the spill, while ARFF is contacted through the IMCC.
3	Operations: M&E	Mechanical	Maintenance of BHS & Check-in counters	Occupational injury	Flying Objects	Procedure	Eye protection must be worn (Wear of Safety Glasses). Record of receiving PPE is to be kept on file,
4	Operations: M&E	Mechanical	Maintenance of BHS & Check-in counters	Fire hazard, injuries, fatalities.	Hot work conducted such as grinding, welding	Procedure	Hot work permit be issued prior commencement of work. Fire equipment to be serviceable.
5	Operations: M&E	Mechanical	Maintenance of BHS & Check-in counters	Occupational injury	Tripping Hazard	Procedure	Demarcate Working Area
7	Operations: M&E	Mechanical	Maintenance of BHS & Check-in counters	Aircraft damage, fatalities	persons and vehicle in the airside	Training	On the job training is performed after Airside Induction Training is received.
8	Operations: M&E	Mechanical	Maintenance of BHS & Check-in counters	Aircraft damage, fatalities	Moving Machinery	Training, Procedure	Airside Induction Training is mandatory prior to receiving a permit to work at the airport. Refresher training is provided every 2 years thereafter.
9	Operations: M&E	Mechanical	Maintenance of BHS & Check-in counters	Occupational injuries	Hand Injury	Training, Procedure	Hand protection must be worn (gloves). Record of receiving PPE is to be kept on file. Airside Induction Training is mandatory prior to receiving a permit to work at the airport. Refresher training is provided every 2 years thereafter.

10	Operations: M&E	Mechanical	Maintenance of BHS & Check-in counters	FOD injected by aircraft, property damage, injuries	Vehicle and tools on at Aprons	Procedure	Area Demarcation during work where applicable and All tools & demarcation to be removed after work
11	Operations: M&E	Mechanical	Maintenance of BHS & Check-in counters	Property damage, vehicle damage, injuries	Driving of vehicles at airside	SWP	AVOP training should be done by drivers with valid driver's license. Vehicles should be deemed serviceable or roadworthy by safety department.

Administrative Risks

Risk Number	Risk Description and Mitigations
1	Safety File not being 100% compliant or safety/environmental infringement could lead to the contractor being taken off site
2	Expired COIDA letter; contractor will be taken off site.
3	Insufficient resources on site to perform the work required roster; low service damages will be levied and failing rehabilitation, the contract will be terminated as specified in this contract
4	Failure to annually present a compliant Tax Clearance Certificate which is considered a material breach of the conditions of this Contract
5	Not meeting set availability target; low service damages will be levied and failing rehabilitation, the contract will be terminated as specified in this contract
6	Not meeting set MTTR target; low service damages will be levied and failing rehabilitation, the contract will be terminated as specified in this contract
7	Spares list not being updated could lead to extended equipment down times; low service damages will be levied, and failing rehabilitation, the contract will be terminated as specified in this contract
8	Root cause analysis not performed could lead to repeated equipment failures; low service damages will be levied and failing rehabilitation, the contract will be terminated as specified in this contract
10	Failure to annually present compliant BEE certificate which is considered a material breach of the conditions of this Contract
11	Contract value being expended before contract expiry date; contract will be terminated
12	Contractor not giving documentation for work assessments and payment on time; Contractor will not be payed on time

13	Updated and compliant safety file regarding Covid 19 PPE and risk assessment, as per OHS and regulation. low service damages will be levied, and failing rehabilitation, the contract will be terminated as specified in this contract
14	Any change in the law that is reinforced as per clause X2(Changes in the law)

ANNEX F

Previously completed P. Ms

The list of preventative maintenance previously performed with activities on the baggage handling mechanical conveyors and carousels actual work orders is available on request, ACSA Integrated maintenance centre can be contacted to issue or, the below link can also be used to access these records: https://airports-my.sharepoint.com/:f:/r/personal/busisiwe_mthimunye_airports_co_za/Documents/Lebogang/OLD?csf=1&web=1&e=Voaky6

ANNEX G

Root cause analysis

***Root cause analysis must be done for each failure and the form is per below must be handed over after closing* any works.**

5 WHY

Date:	Notification Number	Equipment/Machine Name

Equipment Number/ACSA barcode

1. Description of the problem / incident: (describe the end state or effect)

2. What has caused this problem?	What did you See; Hear; Smell; Feel??
1	
WHY?	Evidence
2	
WHY?	Evidence

3	
WHY?	Evidence

4	
WHY?	Evidence

5	
WHY?	Evidence

3. What was done to fix the problem or to get the process to continue.

Root Cause

4. Proposed preventative measures

Damage Code	
Dirty	
Erratic Operation	
Faulty Indication	
Flow	
Jammed	
Leaks	
Loose	
Noisy	
Out of Control Limits	
Out of Position	
Physically Damaged	
Pressure	
Temperature	
Trips	
Utility/ Service Failure	
Vibrates	
Will Not Reset	
Will Not Run	
Other	

Corrective Activity
Adjusted
Aligned
Calibrated
Cleaned
Investigated
Lubricated
Temporary Mod
Removed
Repaired
Replaced
Reset
Tightened
Setup

Name:		
Sign:		

ANNEX H

Estimated times for breakdowns/faults

REFERE TO PRICING TABLE B

ANNEX I

Service Level Agreement

1. Performance objectives

Normal airport operational hours shall be **from 04:00 to 24:00** for every day of the year but will be confirmed/amended by the Service Manager from time to time. Down-time of baggage handling mechanical conveyors and carousels for routine maintenance shall be arranged with the Airport Management Centre three months in advance to suit airport operations. The Contractor must allow for sufficient after-hours work in order for scheduled work not to interfere with airport operations

Minimum Staffing Schedule

The Contractor must maintain the following **minimum** staff available at all times and should price accordingly but not limited to the listed resources:

Skill	Days per week	Hours
Site Manager/Supervisor	Mon-Fri (08:00-17:00) and whenever deemed necessary by the Employer	Mon-Fri (08:00-17:00) and whenever deemed necessary by the Employer
Technician (s) and Assistant Technician (s)	7	Airport operation hours every day

* the service manager will/can adjust the maintenance hours requirements based on the airport operations requirements

*The Contractor must maintain at all times the above **minimum** staff and should price accordingly but not limited to the listed resources.

The Contractor must have additional resources available to attend to lengthy breakdowns or breakdowns of a specialised nature.

It shall be the Contractor's responsibility to ensure that all relevant labour and safety legislation is adhered to in scheduling staff.

The Contractor shall schedule staff to complete the preventative maintenance schedule accordingly. The Tenderer must ensure that sufficient allowance for all these items is made for in his/her pricing in the Activity Schedule.

2. Availability, mean time before failure, mean time to repair and callout response times

The Contractor must comply with the following minimum system performance benchmarks:

The Period of review shall be Monthly.

ACSA has authority to give the contractor the call-out, the authority will be from both IMC and Service Manager.

Service Level table
The following service levels are the minimum acceptable service levels for this contract.

Item	Benchmark*
Baggage handling Overall System - Availability	Availability must be a minimum of 99.5% per month.
Baggage handling Overall System - MTTR	0.517 Hrs.
Baggage handling Overall System - MTBF	48 Hrs.
% of planned maintenance completed per month	100%
Response time for call outs (after working hours, weekend and holidays)	45- 60 minutes on land side and on the airside (The response time is calculated from the time the contractor receives a call/missed call/voice mail etc. from IMC and sometimes from service manager)
Closure of Planned Maintenance (PM) Work Orders (WO) (Planned by ACSA)	All PM WO shall be closed with 6 working days from date of issuing to contractor, (Issued by ACSA either by mail or manual collection)
Closure of Corrective Maintenance (CM) Work Orders (WO)	All CM WO shall be closed with 1 working day from date of issuing to contractor (Issued by ACSA either by mail or manual collection)

**The PMs' and work Orders' are not closed until all works have been correctly completed and the correct completed documents have been sent to both the IMC and the Service Manage.*
** Availability, MTTR and MTBF as defined in the IMC procedure.

3. Emergency Response time

ACSA deems an emergency as a situation caused by unforeseen circumstance. This is only instances where:

- Delaying sourcing the required goods,
- Works or services will result in Loss of life or injury,
- Reputational harm,
- Financial losses,
- Legal consequences,
- Interruption of essential or
- Business services and
- Any other relevant consideration

Below are some of the emergencies identified but not limited to the below list and also the emergency response times:

Item Description	Response Time
In case there is a mechanical or electrical malfunction of the system (check in or BHS) malfunctions.	5 minutes during normal working hours (The response time is calculated from the time the contractor receives a call/missed call/voice mail etc. from IMC and sometimes from service manager)
In case there is a mechanical or electrical malfunction of the system (check in or BHS) malfunctions.	45-60 minutes after hours, weekend and holiday

	(The response time is calculated from the time the contractor receives a call/missed call/voice mail etc. from IMC and sometimes from service manager)

4. Guarantees

The defect free period is defined as that period following completion of the work where no defect directly associated with the Contractors workmanship is detected.

Defect free liability period – preventative maintenance	The defect free period will be no less than the interval between preventative maintenance intervals.
Defect free liability period – corrective or breakdown maintenance	The defect free period will be no less than 90 days.
Defect free liability period – project work	The defect free period will be no less than 12 months.

There are no current (the time of this bid) warrantees and guarantees on the infrastructure to be maintained by the contractor.

5. Assessments and Reviews

- Monthly assessment/review shall be done according to this NEC contract.
- Safety issues and file reviewed quarterly or as per Safety department frequency.
- Contract shall be Audited and Assessed the from time to time.
- The contractor will be assessed and scored quarterly also through the ACSA supplier development system or any other ACSA system.

6. Low service damages

Notification of Low service damages

The Service Manager will notify the contractor in writing of any Low service damages.

The Service Manager will also notify the contractor of any claims directed and incurred by ACSA as a result of the contractor failure of duties, **this will be for the account of the Contractor**.

The sources of the information shall be all reports and Audit reports which the infrastructure is subjected to(e.g. any authorised ACSA employees and any internal and external audits).

ACSA must notify the contractor in writing of its intention to claim a Low service damages within 30 days of an event or ACSA will lose its right to claim the Low service damages. Should ACSA not claim a Low service damages for an event it shall not be interpreted that the level of performance is acceptable or that ACSA shall not be entitled to claim Low service damages for similar future events. Under no circumstances shall a Low service damages be regarded as the only action ACSA may take against the Contractor or the only amount it may claim from the Contractor.

Low service damages tables

Progressive Punitive low service agreement which are entirely the contractor's fault shall be applied as below:

Item No.	Achieved Overall System Availability per Month	Low service damages amount
1	99.9%	100% Full fixed cost billed, minus any other low service damages included in this contract.

2	99.499% - 94.00%	10% reduction of monthly maintenance & inspection costs minus any other low service damages included in this contract.

Any availability less than 99.4% for six consecutive months (which is the entirely the contractor's fault) will lead to contract termination.

Item Description	**Low service damages amount**
Not meeting system MTTR of 0.517 Hrs (i.e. MTTR >0.517 Hrs).	R10 000/month
Not meet system MTBF 48 Hrs (i.e. MTBF > 48Hrs)	R10 000/month
Not maintaining the required minimum on-site staff requirements.	R2 000.00/position/day
Noncompliance to the Response time for call outs (after working hours, weekend, and holidays) as stipulated in the Service Level and this contract.	R2 000.00/event
Noncompliance of emergency response times as stipulated in the Service Level and this contract.	R2 000.00/event
Occupational health and safety act 85 of 1993 (Non-compliance with the OHS Act and its associated regulations (for example: leaving moving machinery exposed)	R2 000.00/event
Less than 100% of planned maintenance (PMs) completed per month (unless the delay in repair was agreed to by the Service Manager or his/her duly authorized representative or unless the required spares are not available to complete the work). Note: The *PMs' and Work Orders' are not closed until all works have been correctly completed and the correct completed documents have been sent to both the IMC and the Service Manage.*	R4 000/month
Not turning PO into completed works / completion certificate on agreed times lines as stated in Risk register	R4 000.00 / per PO / month
Other occupational health and safety act 85 of 1993 which are criminal offences according to the OHS act	Termination
3 Months Consecutive (monthly on contract period) occupational health and safety act 85 of 1993 of the same offence/class	Termination

Discretionary annual contractor's performance review/assessment will be performed to consider the renewal of contract. Should the contractor's performance deemed below satisfactory the contract will not be renewed upon contract anniversary, therefore the contract will be terminated.

7. Incentives and Continuous improvement

Item No.	Achieved Availability per Month	Payment presentence
1	Consistent Overall system availability of 99.5% - 100.00% over six consecutive months.	Only 10% of One Month's maintenance & inspection costs

Continuous Improvement Program and the Computerized Maintenance Management System
It is hereby required that the Contractor ensures that a continuous improvement program is in place. For example, the criteria below may be used but not only limited to the items mentioned below.

5. An improvement in the availability of systems
6. An improvement on the minimization of spares holding (for example by increasing Mean Time to Failure of components)
7. Etc.

As mentioned above this list is not comprehensive and it is only used for illustrative purposes. Upon implementation of the contract the Employer and the Contractor shall agree targets for the continuous improvement program.

It is important to note that continuous improvement will only apply to those items that meet minimum benchmarks. Continuous improvement initiatives shall be reviewed every quarter or when deemed necessary by the Employer or the Contractor.

The Contractor shall take all reasonable actions to ensure that they facilitate successful implementation and execution of the CMMS. The Contractor shall before each anniversary date of the Contract investigate available CMMS data and report if savings can be achieved on the Contract for the next year. This may also include savings on the Contract monthly maintenance amount.

Internal and external factors

A list of some of the internal and external factors which may affect equipment SLAs / availability and are beyond the contractor's control are listed in **Annex T.** In such an event the contractor will not pay for low services damages which were caused by factors which were proven to be beyond the contractor's control.

MAINTENANCE RECORD SHEETS

When maintenance is performed, record sheets must be completed and signed off by both the Technician and an ACSA representative.

These record sheets must be stored for the duration of the contract and should be available for inspection at any time. **The lack of complete history files will result in immediate cancellation of the contract.**

All record sheets, job cards, history reports etc. will stay the property of ACSA and should be available on request. At the end of the contract period a complete set of documentation must be handed over to ACSA.

The contractor shall further provide copies of these record sheets to the ACSA contract manager by the fifth day of every month. **No money will be paid out if record sheets are not handed in.**

ANNEX J

OCCUPATIONAL HEALTH AND SAFETY AGREEMENT
IN TERMS OF SECTION 37(2) OF THE OCCUPATIONAL HEALTH & SAFETY ACT (ACT 85 Of 1993)
& CONSTRUCTION REGULATION 5.1(k)

This form is in C1.3 in this contract and must be filled in by the contractor

ANNEX K

Minimum Maintenance Programme

The Tenderer shall include a suggested maintenance programme that must attempt to cover all requirements under this contract. The below list should be used as a minimum. The responsibility lies with the contractor in ensuring compliance to OEM instructions

Item number	Description	Frequency
1	Inspect the following for any wear or damages or misalignment and Repair if required. - Sorter trays, bearings, belts, drive motors, rollers and guards including structural items (Contractor inspection sheet)	Daily (By contractor)
2	***(Bearing)*** - Check bearing grub screws are secure and located in the correct position. - Listen for any rumble or squeaking of the bearing. Check for leaking seals. If any items are showing any signs of wear, examine and replace as necessary. ***Belts*** - Check for signs of wear or deterioration of belt. - Clean the belt free from any build up of foreign matter as necessary. - Check that belts have not 'tracked' or 'moved' to one side of the conveyor. Adjust the belt tracking if required **Drive Motors/ Gearboxes** - Keep clean and free from oil spillage to trace slow or continuous leaks from oil seals **Guards** - Check for damage, removal or signs of them being insecure. Repair or replace as required. **Rollers** - Study the roller operation: detect any mechanical difficulties such as looseness, bearing stiffness, and rumbling, leaking bearing seals, evidence of shaft stress, fatigue or damage. - Record findings and arrange for overhaul if any abnormal conditions are observed **Sorter** - Check the sorter for deformed plates,top restraining plates. - Check abnormal noises plus excessive carriage vibration points.	Weekly (By contractor)

	- Check for trapped items,straps or foreign bodies that could cause potential snag points, also check if all wooden trays DZUS 9mm panex studs are tight and locked. **Chutes** - Check form stoppers if all are properly glued ,sliding rolle screens and clean PEC sensor plus reflactors. **Carousels** - Listen for any abnormal noises that could be due to poor deterioration of the ball bearings. - Check carousel slats to ensure that no accidental damag - Check Emergency stops are functioning properly and clea - Switch on oil lubrication pump for an hour and lubricate	
3	***(Bearing)*** - Check bearing grub screws are secure and located in the correct position. - Listen for any rumble or squeaking of the bearing. Check for leaking seals. If any items are showing wear, examine and replace as necessary. - Check bearings for heating or noise (condition monitoring) ***Belts*** - Check for signs of wear or deterioration of belt. - Clean the belt free from any build up of foreign matter as necessary. - Check that belts have not 'tracked' or 'moved' to one side of the conveyor. Adjust the belt tracking - If the conveyor belt has to be removed or replaced, take the opportunity to inspect those areas tha inaccessible. - Ensure audible and visual warning(beckon) for each sub station will sound for pre-set time prior section starting. - Test the trip wires, and the belt interlocks and these must be done once a month and records of the **Drive Motors/ Gearboxes** - Keep clean and free from oil spillage to trace slow or continuous leaks from oil seals - Check for intermittent and excessive noises. Service or replace as necessary. - Clean and remove any debris from the unit and the breather plug - Check motors or gearboxes for vibration or noise or heating (condition monitoring) - **Drive Transmission** - Check chains for slackness and wear, lubricate as required, - Check transmission drive belts (Vee Belts, HTD Belts, Etc.) for slackness and wear, tension as require **Guards** - Check for damage, removal or signs of them being insecure. Repair or replace as required.	Monthly (By contractor)

	Rollers - Study the roller operation: detect any mechanical difficulties such as looseness, bearing stiffness, ar leaking bearing seals, evidence of shaft stress, fatigue or damage. - Record findings and arrange for overhaul if any abnormal conditions are observed **Structural Items** - Examine for loose fastenings, open welds, dents any other signs of misuse, wear or damage on the f Conveyors, Carousel, Ball tables, ULD Storage, Platforms, walkways and Stairways and Repair or renew as necessary. **Sorter** - Clean all field device lens and reflactors, ensures correct alignment and security. - Check all track support fixings are in place and secure. Ensure all guards are in place and secure. - Run machine in the maintanance mode and listen to observe sorter carriage behaviour for wobbling,bouncing,squeaking etc, that could identify any wheels/castors that may require replacing. - Check power rail pick up brushes for wear after one month running to establish inspection and replacement - Check that all LIMS mountings are secured, ensure the air gap between LIMS and reaction plates is 4-6mm. **Chutes** - Check bag foam stoppers if properly glued and secured,checck sliding rollers plus backets. Clean PEC sensors/ reflactors. Check chutes screens power suppliers. **Carousel** - Check the slats to ensure no accidental damage has occured. - Listen for any abnormal that could be due to a progressive deterioration, ensure assemblies are clean or external element can damage carousel assy.	
3	***(Bearing)*** - Check bearing grub screws are secure and located in the correct position. - Listen for any rumble or squeaking of the bearing. Check for leaking seals. If any items are showing any signs of wear, examine and replace as necessary. - Check bearings for heating or noise (condition monitoring) - Lubricate bearings.	Three monthly (By contractor)

- Check tightness of bearing mounting bolts and locating rings
- Check belt joints fastenings and alignments of the conveyor

Belts

- Check for signs of wear or deterioration of belt.
- Clean the belt free from any build up of foreign matter as necessary.
- Check that belts have not 'tracked' or 'moved' to one side of the conveyo the belt tracking if required
- If the conveyor belt has to be removed or replaced, take the opportunity those areas that are normally inaccessible.
- Check the belt tension; ensure there is adequate travel remaining on th screws, maximum use 2/3rds of the length of the screw. Adjust the belt required

Drive Motors/ Gearboxes

- Keep clean and free from oil spillage to trace slow or continuous leaks from oil seals
- Check for intermittent and excessive noises. Service or replace as necessary.
- Clean and remove any debris from the unit and the breather plug
- Check motors or gearboxes for vibration or noise or heating (condition monitoring)

Drive Transmission

- Check chains for slackness and wear, lubricate as required,
- Check transmission drive belts (Vee Belts, HTD Belts, Etc.) for slackness and tension as required

- Inspect guards and check for damage, removal or signs of guards being insecure. Repair or replace as required.

Rollers

- Study the roller operation: detect any mechanical difficulties such as looseness, bearing stiffness, and rumbling, leaking bearing seals, evidence of shaft stress, fatigue or damage.
- Record findings and arrange for overhaul if any abnormal conditions are observed
- Inspect the drive pulley lagging. Examine for wear of the nipples on the lagging, particularly the trapezoidal (taper) sections of the pulley. Check for softening of the lagging material also for lifting of the lagging. Renew the lagging if there is substantial wear or signs of the lagging softening or lifting.

Structural Items

	- Examine for loose fastenings, open welds, dents any other signs of misuse, wear or damage on the following Conveyors, Carousel, Ball tables, ULD Storage, Platforms, walkways and Stairways Repair or renew as necessary **Sorter** - Clean all field device lens and reflectors, ensures correct alignment and security. - Check all track support fixings are in place and secure. Ensure all guards are in place and secure. - Run machine in the maintenance mode and listen to observe sorter carriage behaviour for wobbling, bouncing, squeaking etc, that could identify any wheels/castors that may require replacing. - Check power rail pick up brushes for wear after one month running to establish inspection and replacement - Check that all LIMS mountings are secured, ensure the air gap between LIMS and reaction plates is 4-6mm. - Remove accumulated dust, check all power cables for signs of damage to insulation. **Chutes** - Check bag foam stoppers if properly glued and secured, checck sliding rollers plus roller holding brackets. Clean PEC sensors/ reflectors. Check chutes screens power suppliers. **Carousels** - Check the slats to ensure no accidental damage has occurred. - Listen for any abnormal that could be due to a progressive deterioration, ensure assemblies are clean or external element can • damage carousel assy.	
5	***(Bearing)*** - Check bearing grub screws are secure and located in the correct position. - Listen for any rumble or squeaking of the bearing. Check for leaking seals. If any items are showing - Lubricate bearings. ***Belts*** - Check for signs of wear or deterioration of belt. - Clean the belt free from any build up of foreign matter as necessary Also if required clean with a mi of the conveyor. - Check that belts have not 'tracked' or 'moved' to one side of the conveyor. Adjust the belt tracking - If the belt is damged to a degree (it cannot move) that it has to be removed or replaced, take the op	Year (By contractor)

- Check the belt tension; ensure there is adequate travel remaining on the tension screws, maximum

Drive Motors/ Gearboxes

- Keep clean and free from oil spillage to trace slow or continuous leaks from oil seals
- Check for intermittent and excessive noises. Service or replace as necessary.
- Clean and remove any debris from the unit and the breather plug
- Check motors or gearboxes for vibration or noise or heating (condition monitoring)
-

Drive Transmission

- Check chains for slackness and wear, lubricate as required,
- Check transmission drive belts (Vee Belts, HTD Belts, Etc.) for slackness and wear, tension as require

Guards

- Check for damage, removal or signs of them being insecure. Repair or replace as required.

Rollers

- Study the roller operation: detect any mechanical difficulties such as looseness, bearing stiffness, and rumbling, leaking bearing seals, evidence of shaft stress, fatigue or damage.
- Record findings and arrange for overhaul if any abnormal conditions are Observed.

- Inspect the drive pulley lagging. Examine for wear of the nipples on the lagging, particularly the trapezoidal (taper) sections of the pulley. Check for softening of the lagging materia
- Clean the pulley/roller face free from any build up of foreign matter.

Structural Items

- Examine for loose fastenings, open welds, dents any other signs of misuse, wear or damage on the following Conveyors, Carousel, Ball tables, ULD Storage, Platforms, walkways and Stairways Repair or renew as necessary.

Sorter

- Check trays for excessive vibration, deformed track top restraining plates. Repair/replace as required.
- Check for trapped items or other foreign bodies that could cause potential snag points.
- Check power rail pick up brushes after 6 months of running to establish replacement schedule. The wear rate should reduce after considerably after the first set of brushes has bedded in the pick up rails. The actual wear rate is system layout and speed dependant as general guide ***the expected life is between 11 000 to 12 000km at 1.4 m/s.*** wear rate can be established to give the number of hours running between checks and subsequent replacement.

	- Check expansion joint mountings at every at every brush inspection to ensure that the joints are not being held in tension, which can result in accelerated brush wear. - Check that all LIMS mountings are secured and reset where necessary air gap between LIMS and the reaction plates. Ensure that the cooling fan and the heat sink are clear from dust and debris. - Clean all field device lances and reflectors, ensure correct alignment. Ensure that all track support fixings are in place and secure. Check that all guards are in place. - Run the in maintenance mode listen and observe the sorter carriages behaviour ; for woobling, bouncing, squaeking that can identify any wheels/castors that may require replacement **Carousels** - Check fixings of the slats, the support fixation on to the chain, wear of sliding friction pieces and their tightness. Check the wear of driving pieces and their tightness. - Check the state of the surface of bearing wheels the chain links, bearing wheels should roll smoothly inside the track. Chain should roll without any jerks. Replace damaged chain links. - Inspect the following components; pair of driving sprockets, pusher dogs, bearing, tension slides and all these parts must be maintained in a clean and well lubricated state by lubrication with a light film of Syntochaine or equivalent oil. - Check for any failure the following components proximity detector, lubricant reservoir,2 projecting pumps, control box wiring. - Check motor gearbox oil level, breather plug if not blocked, check temperature if not overheating and when functioning - Check that connection terminals are properly tightened.	

ANNEX L (Contractor to fill in)

ACSA SERVICE & MAINTENANCE CONTRACTORS
ENVIRONMENTAL TERMS AND CONDITIONS TO COMMENCE WORK - EMS 048

The following Environmental Terms and Conditions shall be strictly adhered to by all contractors when conducting works for the Employer. The Employer shall audit Contractor activities, products and services on an ad hoc basis to ensure compliance to these environmental conditions. Any pollution clean-up costs shall be borne by the Contractor.

ISSUE	REQUIREMENT
Environmental Policy	ACSA's (the Employer's) Environmental Policy shall be communicated, comprehended and implemented by all appointed Contractor staff.
Storm water, Soil and Groundwater Pollution	• No solid or liquid material may be permitted to contaminate or potentially contaminate storm water, soil or groundwater resources. • Any pollution that risks contamination of these resources must be cleaned-up immediately. Spills must be reported to the Employer immediately. Contractors shall supply their own suitable clean-up materials where required. • Washing, maintenance and refuelling of equipment shall only be allowed in designated service areas on the Employer property. It is the Contractor's responsibility to determine the location of these areas. • No leaking equipment or vehicles shall be permitted on the airport.
Air Pollution	• Dust: Dust resulting from work activities that could cause a nuisance to employees or the public shall be kept to a minimum. • Odours and emissions: All practical measures shall be taken to reduce unpleasant odours and emissions generated from work related activities. • Fires: No open fires shall be permitted on site.
Noise Pollution	• All reasonable measures shall be taken to minimize noise generated on site due to work operations. • The Contractor shall comply with the applicable regulations regarding noise.
Waste Management	• Waste shall be separated as general or hazardous waste. • General and hazardous waste shall be disposed of appropriately at a permitted landfill site should recycling or re-use of waste not be feasible. • Under no circumstances shall solid or liquid waste be dumped, buried or burnt. • Contractors shall maintain a tidy, litter free environment always in their work area. • Contractors must keep on file: 1. The name of the contracting waste company 2. Waste disposal site used

	3. Monthly reports on quantities – separated into general, hazardous and recycled 4. Maintained file of all Waste Manifest Documents and Certificates of Safe Disposal 5. Copy of waste permit for disposal site This information must be available during audits and inspections.
Handling & Storage of Hazardous Chemical Substances (HCS)	• All HCS shall be clearly labelled, stored and handled in accordance to Materials Safety Data Sheets. • Materials Safety Data Sheets shall be stored with all HCS. • All spillages of HCS must be cleaned-up immediately and disposed of as hazardous waste. (HCS spillages must be reported to the Employer immediately). • All contractors shall be adequately informed with regards to the handling and storage of hazardous substances. • Contractors shall comply with all relevant national, regional and local legislation regarding the transport, storage, use and disposal of hazardous substances.
Water and Energy Consumption	the Employer promotes the conservation of water and energy resources. The Contractor shall identify and manage those work activities that may result in water and energy wastage.
Training & Awareness	The conditions outlined in this permit shall be communicated to all contractors and their employees prior to commencing works at the airport.

Low Service Damages

Low service damages shall be imposed by the Employer on Contractors who are found to be infringing these requirements and/or legislation. The Contractor shall be advised in writing of the nature of the infringement and the amount of the low service damages to be imposed. The Contractor shall take the necessary steps (e.g. training/remediation) to prevent a recurrence of the infringement and shall advise the Employer accordingly. The Contractor is also advised that the imposition of low service damages does not replace any legal proceedings the Council, authorities, landowners and/or members of the public may institute against the Contractor.

Low service damages shall be between R 200.00 and R 20,000.00, depending upon the severity of the infringement. The decision on how much low service damages to impose will be made by ACSA's (the Employer) Airport Environmental Management Representative in consultation with the Airport Manager or his/her designate and will be final. In addition to the low service damages, the Contractor shall be required to make good any damage caused due to the infringement at his/her own expense.

I, _____ (name & surname) of _____

_____ (company) agree to the above conditions and acknowledge the Employer's right to impose low service damages should I or any of my employees or sub-contractors fail to comply with these conditions.

Signed: _____ on this date: _____ (dd/mm/yyyy)

at: _____ (airport name).

ANNEX M

Maintenance of Baggage handling system mechanical conveyors and carousels Spares List

Part code	Part description
A447001	Bearing Rod End Assembly.rose coupler
	Nuts nylock M5
N20-4520x1000	4520x1000 Endless flat belt
922266	Bearing 2 Hole Flanged (40 Bore)
SFT40	Bearing 2 Hole Flanged (40 Bore)
40PRRP	Bearing Cap
Guide Bearing 1 917348	Bearing Guide assembly for carousels
G185142	Bearing lower holder for bends
922304	Bearing Pillow Block 40 Dia Eccentric L/C.
922923	Bearing Rose Female-M16X2 Mm LH Thread
922922	Bearing Rose Female-M16X2 Mm RH Thread
922467	Bearing Sealed Spherical Roller
922466	Bearing Self Alligning Double Row
922465	Bearing Self Alligning Double Row
922274	Bearing Self Lube Cast Iron SF40EC
TS1500/100	Grooved ball bearings for curved conveyors
YAR 205-2F	Flange Bearing 25mm
YAR 207-2F	Flange Bearing 35mm
100299	Bearing SNP 40 DEC
G185141	Bearing Upper holder for bends
922262	Bearing-Housed-Flanged-50 B- 4 Hole-Rhp
FYC 205TF	Inside radius Bearings 25mm
FYC207TF	Inside radius Bearings 35MM
922255	Bearings-Flange 25Mm X 2 Hole
924073	BELT "V"(REF: SPA 900)
924923	Belt 1TSS Fastener
FB2150	Belt Finger 2,150 Meter
FB2730	Belt Finger 2,730 Meter
FB2440	Belt Finger 2.440 Meter
FB3010	Belt Finger 3,010 Meter

FB3300	Belt Finger 3,300 Meter
FB3590	Belt Finger 3,590 Meter
FB3870	Belt Finger 3870 Meter
100219	Belt H.T.D.Plus Toothed
BELT/A/LF/1000/50,000/O	Belt Low Friction 1000w x 30,000mm(2,500mm)
BELT/A/LF/1,200/10,000/O	Belt Low Friction 1200w x 05,000mm
BELT/A/RT/1,000/50,000/O	Belt Rough Top 1000w x 25,000mm
BELT/H/RT/0,120/25,000/O	Belt Rough Top 120 x 25,000 - V
BELT/A/RT/1,200/60,000/O	Belt Rough Top 1200w x 56,000mm(4,000mm)
BELT/A/ST/1000/3670	Belt smooth
BELT/A/ST/1000/3108/E	Belt Smooth Top
BELT/A/ST/1000/2508 E	Belt Smooth Top
BELT/A/ST/1000/3108/E Zipper	Belt Smooth Top Zipper
BELT/A/LF/1000/5000 E	Belt Low Friction
BELT/A/LF/1000/4580 E	Belt Low Friction
BELT/A/LF/1000/4510 E	Belt Low Friction
BELT/A/LF/1000/4370 E	Belt Low Friction
BELT/A/LF/1000/4820 E	Belt Low Friction
924765	Belt Rough top 3492 LG x 350 Wide
BELT/A/ST/1,000/50,000/O	Belt Smooth Top 1000w x 43,600Mm(8,00mm)
BELT/A/ST/1,200/10,000/O	Belt Smooth Top 1200 x 10,000
BELT/A/LF/1000/04370/E	Flat Belt assy
BELT/L4510/1000	Low Friction Merge belt
924636	Belt-Flat Toothed 85 T, 1190 Lg.Htd
211-07-B01	45 degree flat KT96A (Flat curve)
211-07-B02	60 degree flat KT96A (Flat curve)
211-07-B03	90 Degree Flat KT96A (Flat curve)
	90 degree spiral curve belt KT96V6 Hight diff. =1065mm
212-07-SB01	90 degree spiral curve belt KT96V6 Hight diff. =420mm
212-07-SB02	45 degree spiral curve belt KT96V6 (OOG) =225 Diff
M8x40LG	Bolts allen M8x40LG
FKE 12.9 BOLTS	Bolts Ellen Cap
9365206	Brush Carbon Earth(Ref:Skn Ea 0254892)
9365205	Brush Carbon Phase(Ref:Skn Ph 0254890)

9365229	Brush Potted break unit (break relay)
999641	BRUSH STRIP
936030	Bus Bar Collector - Front
936032	Bus Bar Collector - Rear
928146	Bush-T/L-1610X25Mm
928152	Bush-T/L-1610X40Mm
928177	Bush-T/L-2012 X 40Mm
H748001	Carriage Cassette Flexible Mount.
A689001	Carriage Cowl (end cover assembly)
A435002	Carriage Link Assembly 1200 Pitch
	Carrousel chain links
5m.SH Chain IS0.08B1	Chain
	Master chain link
06B--1X10FT	Chain
	Chain
FR100027	Chain links moving platform carousel
140M-D8N-C16	Circuit Breaker - 16.0A
C60HC320	Circuit Breaker 3 pole 20A
C60HB110	Circuit Breaker 1 pole 10A B Type
C60HB101	Circuit Breaker 1 pole 1A B type
C60HC120	Circuit Breaker 1 pole 20A C type
C60HC140	Circuit Breaker 1 pole 40A C type
C60HC104	Circuit Breaker 1 pole 4A C type
C60HB106	Circuit Breaker 1 pole 6A B type
C60HC106	Circuit Breaker 1 pole 6A C type
C60HC110	Circuit Breaker 1pole 10A C type
C60HC204	Circuit Breaker 2 pole 4A C type
C60HD325	Circuit Breaker 3 pole 25A D type
C60HD332	Circuit Breaker 3 pole 32A D type
C60HD340	Circuit Breaker 3 pole 40A D type
C60HC304	Circuit Breaker 3 pole 4A C type
C60HD350	Circuit Breaker 3 pole 50A D type
C60HD306	Circuit Breaker 3 pole 6A D type
30403	Circuit Breaker 3 pole Compact NS160N
140M-C2E-B25	Circuit Breaker Motor : 1.6 - 2.5A (0.75kW)
140M-C2E-B40	Circuit Breaker Motor : 2.5 - 4.0A (1.1/1.5kW)
140M-C2E-B63	Circuit Breaker Motor : 4.0 - 6.3A (2.2kW)
GV2-ME16	Circuit Breaker Motor 9.0-14.0A
254895	Guide wheels for collectors

22.F5.G0R-960A	Combivert F5-G - 55kW
ZB4-BZ102	Contact Body - 1NC
ZB4-BZ103	Contact Body - 2NO
ZB4-BZ105	Contact body 1NO/1NC
LC1-D25P7	Contactor 11kW(25A) 230V(50/60Hz)
LP4-K0910BW3	Contactor 4kW (9A) 24V - 1NO
100-K09DJ10	Contactor 4kW(9A) 24VDC
LP4-K1210BW3	Contactor 5.5kW(12A) 24VDC(LC)
LC1-D150P7	Contactor 75kW(150A) 230V(50/60Hz)
GV-AE11	Contactor auxiliary front GV2-ME 1NO/1NC
140M-C-AFA11	Contactor Auxiliary Front mount - 1NO/1NC
140M-C-ASA20	Contactor Auxiliary Side mount - 2NO
XAL-K178E	Emergency stop 1NC/1NO
946046	Encoder Strip Screen Printed 1200 P
946446	Encoder Strip Screen Printed 1200 P
9365239	Flying lead - 1200 carriage
Fuse	Fuse 1.5 A 5x20 cartridge
Fus+A184e2A	Fuse 2A Mini
13394	Fuse 500mA 10 x 38 cylindrical
254903	Guide Wheels for SKN, SWN
P13433	Chute end roller
TO-215679/I1/SVB	Isolator main switch
TO-22003006	Isolator socomec circo M2
VBS40258818	Joint kit KSL4 Bolted joints
258754	Line feed special KNKL 4/60 (busbar power inlet)
	Mechanical Spares
9365234	Modem Power Cable
951310	Motor SEW 0.75 KW, Grd 173 rpm
951318	Motor SEW 0.75 KW, Grd 31 rpm
951200	Motor SEW 0.75 Kw,(0.5 M/S) Braked 72 rpm
951207	Motor SEW 0.75 Kw,(0.8 M/S) 119 rpm
951202	Motor SEW 0.75 Kw,(0.8 M/S) Braked 117 rpm
951203	Motor SEW 0.75 Kw,(1.0 M/S) Braked 154 rpm
951215	Motor SEW 1.1 Kw,(0.5 M/S) 72 rpm

951210	Motor SEW 1.1 Kw,(0.5 M/S) Braked 72 rpm
951217	Motor SEW 1.1 Kw,(0.8 M/S) 120 rpm
100KFA22Z	Contact Block for 100-K09 (2NO)
951237	Motor SEW 1.1 Kw,(0.8 M/S) 72 rpm
951212	Motor SEW 1.1 Kw,(0.8 M/S) Braked 120 rpm
951232	Motor SEW 1.1 Kw,(0.8 M/S) Braked 72 rpm
951213	Motor SEW 1.1 Kw,(1.0 M/S) Braked 155 rpm
951220	Motor SEW 1.5 Kw,(0.5 M/S) Braked 71 rpm
951227	Motor SEW 1.5 Kw,(0.8 M/S) 119 rpm
951222	Motor SEW 1.5 Kw,(0.8 M/S) Braked 119 rpm
GM/SEW/R47/1.5/176/004	Motor SEW 1.5 kW Grd 176 rpm
GM/SEW/R47/1.5/203/001	Motor SEW 1.5 kW Grd 203 rpm
951250	Motor SEW 2.2 Kw,(0.5 M/S) Braked 46 rpm
951257	Motor SEW 2.2 Kw,(0.8 M/S)
951252	Motor SEW 2.2 Kw,(0.8 M/S) Braked
GM/SEW/KA47/2.2/120/007	Motor SEW 2.2 kW 0.8m/s Grd 120 rpm
GM/SEW/KA47/2.2/120/008	Motor SEW 2.2 kW 0.8m/s Grd 120 rpm
951265	Motor SEW 3.0 Kw,(0.8 M/S)
SA47TDT90L4,	Motor SEW 1.5 KW Type RPM 194, Ratio 7.28, Shaft Dia 30mm
SA47TDT80N4,	Motor SEW 0.75 KW Type: RPM 190, Ratio 7.28, Shaft Dia 30mm
SA47TDT80K2,	Motor SEW 0.75 KW Type: RPM 2800/259 Ratio 10.8, Shaft Dia 30mm
SA47TDT90S4,	Motor SEW 1.1 KW Type:RPM 192, Ratio 7,28, Shaft Dia 30mm
SA57TDT90L4,	Motor SEW 1.5 KW, Type:RPM 1410/117 Ration 12, Shaft Dia 30mm
SA57TDT90L4 / BMG,	Motor SEW 1.5 KW, Type: RPM 1410/194, Ratio 7,28, Shaft Dia 30mm
SA57TDT90S4 / BMG,	Motor SEW 1,1 KW, Type:RPM 1400/130 Ratio 7,28, Shaft Dia 30mm
440R-N23126	MSR127T safety relay (3NO + 1NC)
546-3068	N-Type to SMA female adaptor
45X75X8cc	Oil seal
999818	Perspex tow plate
999480	Pivot arm rubbers / Anti Vibration Pads
	RIVET BLIND 3mm
D866001	Idling Roller

W267002	Roller Dive Pulley
W213002	Roller Drive Pulley 124.5 D,1135 O/S,1513L
W213001	Roller Drive Pulley 124.5 D,935 O/S,1313L
W267001	Roller Drive Pulley 218 Dia,1010 O/S,1359L
A686001	Roller Drive Pulley Assembly
A554002	Roller Drive Pulley Lagged 1010 O/S,1359 L
A554005	Roller Drive Pulley Lagged 1210 O/S,1559 L
D711002	Roller Drive Pulley-Lagged 124.5 D,1225 L
A555002	Roller End 127 Dia X 153.5 O/Shaft.
A555001	Roller End 127 Dia,140 O/Shaft.
229SA57	Roller for curve conveyor
958315	Roller PULLEY BELT "V" (REF: SPA 100)
958640	Roller Pulley Htd 28 Tooth X 2012 Bore
961000	Roller Return 60 D,1010 Rl,1025 Agl
961001	Roller Return 60 D,1210 Rl,1225 Agl
C704003	Roller Snubber 76.1 Dia X 1025 Long
C704006	Roller Snubber 76.1 Dia X 1225 Long
D866007	Roller Stub Shaft Pulley 100 Dia,1164 Lg
D866008	Roller Stub Shaft Pulley 100 Dia,1364 Lg
D866002	Roller Stub Shaft Pulley 124.5 Dia,1355 Lg
A556001	Roller Take Up 100 Dia,130 O/Shaft.
A422001	Take Up Roller Assy 100 Dia,1025 L
A685001	Roller Take Up Pulley.
961004	Tension Roller Takeup 89 D,1010 O/B,1100 Lg
Rollers 1.2 Meter	Rollers for roller table 1.2 meter
Rollers 1.22 Meter	Rollers for roller table 1.22 meter
22205E	SKF Explorer Bearing
526-0308	SMA assembly RG174 cable (1m)
	Sprocket
938933	Stud 9 Mm Panex Recess Head / DZUS bolt
FR300259	Support travers
RE7-TP13BU	Timer On Delay DPDT
A438001	Tipper Distribution Cassette 1200 P
A436001	Tipper Master Cassette Assy 1200 P
A462001	Tipper Pivot Arm Assembly.(Rear).
A462002	Tipper Pivot Arm Assembly.(Front).

A437001	Tipper Slave Cassette Assy 1200 P
339-400-190	Panex Receptacle 9mm-riveted
A478002	Tipper Undercarriage of tray/Sorter under carriage tray
A690002	Top Cover (For 1200 Long Carriage)
100131	Transformer 10kVA - 400V/220V
100132	Transformer 2kVA 3P - 400V/220V
999906	Tray Curved Edge-1200 Fireretardent
938934	Washer Nylon Retaining .
972437	Wheel Tyred 50 Dia,12 Bore,15 W-Red
972439	Wheel.Tyred 101.6 mm Dia
972438	Wheel.Tyred 50 mm Dia
9365237	Wires Earth for carriage
502150	Carousel Slats / Flexible Slats
H800001	Collector Cable Pick Up Anchor / Cable Tie Clamp
206226-1	Locking Nut for Elect + Comms leads of Sorter Cassette.
101648	Nylon blocks/sliding friction piece
FR101196	Caterpillar pusher dog drive chain assembly
951130	LIM motor capsule - Linear Induction motor
951102	Linear Induction Motor
91490	Pathfinda 2011 35mm bearing housing
91494	Pathfinda 2011 25mm bearing housing
91491	Pathfinda 2011 Tail shaft
91492	Pathfinda 2011 Drive shaft
91493	Pathfinda snub roller shaft
O2209	Bearing SFT40 2 Hole e .collar
O2158	Bearing self aligning 2207 2RS 35mm
O2159	Bearing self aligning 1305 25mm
73991BLUE	Rubber disc 4 "diameter 30mm square bore"
11651 / 11648	Intralox Series 400 ARB Belt overlenght 1.0m
11600	Intralox sprocket 12T Acetal 7.8 400 Series Sq Bore
11601	Intralox retainer ring 40mm
91487	Parthfinda wear finger
SA4177	Conveyor carryway assembly Roller
W4720 KTM4 - FM804	Terminal Block (SEW motor terminals)
	SEW No

	KA47/TDT80N4/BMG/HF
	KA47/TDT80N4/BMG/HF
	KA47/TDT80N4/BMG/HF
	KA47/TDT80N4/BMG/HF
	KA47/TDT80N4/BMG/HF
	KA47/TDT80N4
	KA47/TDT80N4
	KA47/TDT90S4/BMG/HF
	KA47/TDT90S4/BMG/HF
	KA47/TDT90S4/BMG/HF
	KA47/TDT190S4
	KA47/TDT90S4
	KA47/TDT90L4/BMG/HF
	KA47/TDT90L4/BMG/HF
	KA47/TDT90L4
	KA47/TDT90S4/BMG/HF
	KA47/TDT90S4
	KA57/TDV100M4/BMG/HF
	KA47/TDTV100M4/BMG/HF
	KA47/TDV100M4
	KA57/TDV100L4
	SA47/TDT90L4
	KA47/2.2/120/007
	R27DT80N4
	R47/1.5/176/004
	R47/1.5/203/001
	R47/2.2/291/003
	SA47/TDT80N4
	SA57/TDT90S4/BMG

14 Check-in counters spares list

No.	Item Description
1	BALL BEARING - ROLLER SHUTTER DOORS
2	Carousels - Arrival - 3P Switch Enclosure ACZ1A 16 A - P/No.GAZ016
3	Check-In System - 18 Roller Door Slat -P/No. 008200-06367
4	Check-In System - Epic H-A 3 MTGVB M20 N.Gen - P/No. 19512-100
5	Check-In System - Epic H-A 3 MTGVB M20 N.Gen - P/No. 19512-900
6	Check-In System - H-A 3 Pin/Socket Insert Female - P/No. 1042-1000
7	Check-In System - Human Intervention PEC - P/No.ML100-55-5573/247209
8	Check-In System - Human Intervention Reflectors BRT-92x92c - P/no.49808
9	Check-In System - Human Intervention Reflectors MH82 - P/no.127831
10	Check-In System - Human Intervention Siemens Flashing lights P/No.8WB4 420-5EB
11	Check-In System - Long Range PEC - P/No.RL28-55-las/76A/82B/105/110
12	Check-In System - Olflex Classic 110 Cable - P/No.1119-308
13	Check-In System - Sensor Cable Plug M8 P/No.sspc3k/8004831
14	Check-In System - UPS Batteries
15	Check-in System - 18 Aluminium Hollow Bottom Slat 75 - P/No. 008200-06361
16	Check-in System - 18 Aluminum Profile - P/No. 008200-06360
17	Check-in System - 2 Channel ASI Gateway VBG PB K20 DMD - P/No. 005303-00502
18	Check-in System - 4519 Guide Rail URF 95 -P/No. 008200-06356
19	Check-in System - ASI Afsluitweerstand VAZ TERM - P/No. 005303-00517
20	Check-in System - ASI Cable Coupler VAZ-2FK-B3 - P/No. 006002-14980
21	Check-in System - ASI Power Supply 4Amp VAN 115/230AC-K17 - P/No. 005303-00512
22	Check-in System - ASI Tap-off Cable M12 L=2m st. Vaz-2t1-fk-2m-pur-v1-g - P/No. 006002-14918
23	Check-in System - ASI to M12 Tap-off Connector VAZ-G6F-V1 - P/No. 006002-14926

24	Check-in System - ASI-Bus Mod M 8 4xI/4xQ ExT24V M12 VAA-4E4A-G16-ZEJ/E2LASI2.1 - P/No. 005303-00534
25	Check-in System - ASI-Bus Module 4xI/4xQ Screw VAA-4E4A-KE-ZE/E2 - P/No. 005303-00536
26	Check-in System - Actuator Mushroom Shaped Push- 3SB3000-1HA20 - P/No. 006013-10375
27	Check-in System - Actuator Mushroom Shaped Push- 3SB3400-OC - P/No. 006013-10376
28	Check-in System - Actuator Pushbutton with Flat 3SB30000AA11 - P/No. 006013-10300
29	Check-in System - Actuator with 1 Contact 1NC 3SB34000C - P/No. 006013-10309
30	Check-in System - Actuator with 1 Contact 1NO 3SB34000B - P/No. 006013-10308
31	Check-in System - Alusolid Aluminium Slat RM0810 - P/No. R 3464-001
32	Check-in System - Aluvista End Locks Nylon Left BT1370 - P/No. R 3464-004
33	Check-in System - Aluvista End Locks Nylon Right BT1380 - P/No. R 3464-005
34	Check-in System - Assy 2D Chain L=1010 mm - P/No. 0L8340-00004
35	Check-in System - Assy Flat Carrier Width=1000 Clockwise/ Anti - P/No. 0L8327-00001
36	Check-in System - Assy Pressure Roll - P/No. 0L8344-00001
37	Check-in System - Assy Tension Pulley 205mm - P/No. 0L8343-00001
38	Check-in System - Assy Tilted Carrier 25deg - P/No. 0L8329-00001
39	Check-in System - Assy Wheel 90 - P/No. 0L8342-00001
40	Check-in System - Assy Wheel Pressure Unit 3 Wheels - P/No. 0L0439-00003
41	Check-in System - Aux Switch Block DIN EN 50005 3RH19211MA02 - P/No. 006011-01642
42	Check-in System - Aux Switch Mount 2S T=70 5ST3011 - P/No. 006012-05490
43	Check-in System - Auxil. Switch laterally fitt. 3RV1901 - 1B - P/No. 006011-02526
44	Check-in System - Battery Back-Up 3,6V 0,85Ah 6ES79711AA000AA0 - P/No. 005302-10190
45	Check-in System - Bearing Ball 6003/2RS-C3-17 ISI15-1981 - P/No. 004904-00404
46	Check-in System - Bearing Ball 6006/2RS-C3-30 ISO15-1981 - P/No. 004904-00407

47	Check-in System - Bearing Ball 6204/2Z-CN-20 ISO15-1981 - P/No. 004904-00705
48	Check-in System - Bearing Ball 6205/Z-C3-25 ISO15-1981 - P/No. 004904-00606
49	Check-in System - Bearing Ball 6206/2ZR-C3-30 ISO15-1981 - P/No. 004904-62061
50	Check-in System - Bearing Ball 6308/2ZR-C3-40 ISO15-1981 - P/No. 004904-63081
51	Check-in System - Bearing Block Flange Rnd PME-50 N - P/No. 004931-00850
52	Check-in System - Bearing Block Flange Sqr PCJ-35 - P/No. 004931-00335
53	Check-in System - Bearing Safety Cap DIA35 KA SK 07 B - P/No. 004931-11035
54	Check-in System - Bearing Slide Flange BP25C 16/20X16 Porous Bronze Kr.27x3 - P/No. 004901-00165
55	Check-in System - Bearing Slide Flange BP25C 22/29x18 Porous Bronze - P/No. 004901-00205
56	Check-in System - Belt Edge Holder Bottom for TS 1600 - P/No. G401564
57	Check-in System - Belt Edge Holder Top for TS 1600 - P/No. G401562
58	Check-in System - Belt Flexam 2X0281 FR W=1000 Prepared Flame Retardant - P/No. 004405-10032
59	Check-in System - Belt Flexam EX 10/2 0+A32 W =1000 Black AS FR Endless - P/No. 004406-10012
60	Check-in System - Belt Protection Drawing y-029 Alum. Right - P/No. 000470-02901
61	Check-in System - Belt Protection Drawing y-030 Alum. Left - P/No. 000470-03001
62	Check-in System - Blind Plug (for M12 Sockets) VAZ-V1-B - P/No. 006002-14972
63	Check-in System - Brush for SPO Left Side - P/No. 006881-30230
64	Check-in System - Brush for SPO Right Side - P/No. 006881-30231
65	Check-in System - Cable M12 Male 3p/M12 Female 3p/H.F./L=0,2mtr - P/No. 006002-13705
66	Check-in System - Cable M12 Male 4p/M12 Female 4p/H.F./L= 3mtr - P/No. 006002-13684
67	Check-in System - Cable M12 Male 4p/M12 Female 4p/H.F./L= 5mtr - P/No. 006002-13682
68	Check-in System - Cable M12 Male 4p/M8 Female 4p H.F./L 1mtr - P/No. 006002-13672

69	Check-in System - Cable M12 Male 4p/M8 Female 4p H.F./L= 2mtr - P/No. 006002-13670
70	Check-in System - Cable M12 Male 4p/M8 Female 4p H.F./L= 3m - P/No. 006002-13668
71	Check-in System - Cable M12 Male 4p/M8 Female 4p H.F./L= 7mtr - P/No. 006002-13671
72	Check-in System - Cable M12 Male 4p/M8 Female 4p H.F./L=10mtr - P/No. 006002-13663
73	Check-in System - Cable M8 3p Male/M8 4p Female H.F./L=2mtr - P/No. 006002-13930
74	Check-in System - Central Processor Unit CPU319 - P/No. 005302-10130
75	Check-in System - Chain Conn Sim DIN8187-08B-1 Type 26 1/2x5/16 - P/No. 004821-03102
76	Check-in System - Chain Conn Sim DIN8187-12B-1 Type 26 3/4x7/16 - P/No. 004821-03104
77	Check-in System - Chain Guide 54x16 - P/No. 006881-10000
78	Check-in System - Chain Sim DIN8187-08B-1 1/2x5/16 for Take Up - P/No. 004821-10102
79	Check-in System - Channel Connection TF - P/No. 006881-00204
80	Check-in System - Circuit Breaker 2Amp 5SY4402-7 - P/No. 006012-07585
81	Check-in System - Circuit Breaker 10Amp 5SY4210-8 - P/No. 006012-07604
82	Check-in System - Circuit Breaker 25A 4 P 5SY4425-6 - P/No. 006012-07456
83	Check-in System - Circuit Breaker 3P/2A/C 5SY4302-7 - P/No. 006012-07565
84	Check-in System - Circuit Breaker VL 160N Stand 3VL27161EE430AB1 - P/No. 006013-10421
85	Check-in System - Circuit breaker 10KA 3POL B6 5SY44306-6 - P/No. 006012-07433
86	Check-in System - Circuit breaker 4,5,6,3A 3RV10211GA10 - P/No. 006011-02517
87	Check-in System - Cladding Connection TF/TT PE48DB/Perfo/Adh - P/No. 006881-00141
88	Check-in System - Complete Control Cabinet - P/No. R004560-010
89	Check-in System - Complete Unit Rnd Ind Light W 3SB3244-6AA60 - P/No. 006013-10324
90	Check-in System - Complete Unit Rnd Ind Light W 3SB32446AA40 - P/No. 006013-10322

91	Check-in System - Complete Unit Rnd Light Blue 3SB32446AA50 - P/No. 006013-10323
92	Check-in System - Contactor 4p-230V-11kW 3RT13261AP00 - P/No. 006011-01780
93	Check-in System - Control Box 180x110x165mm PK 9516.000 - P/No. 006003-02956
94	Check-in System - Current Transformer 400/1A RM60-E3A 4M2418N - P/No. 006002-03052
95	Check-in System - DIA60 Gravity Roller with Spring st/hex11 EL=1080 - P/No. 001090-11080
96	Check-in System - DIA60 Roller AGL= 453mm Axle=DIA17 - P/No. 001093-00453
97	Check-in System - DIA71 Driven Roller - P/No. 059005-123-01191
98	Check-in System - Digital Input Module 32x24VDC 6ES73211BL000AA0 - P/No. 005302-10270
99	Check-in System - Digital Output Module 32x24VDC 6ES73221BL000AA0 - P/No. 005302-10271
100	Check-in System - Drive Pulley Conical for TS 1600-105 FH Inside Drive RN=1000 mm BN=1100 mm DWAN=30 mm - P/No. U1008659-V009
101	Check-in System - Drive Pulley Conical for TS 1600-105 FH Outside Drive RN=1000 mm BN=1100 mm DWAN=30 mm - P/No. U1005030-V0001
102	Check-in System - Drive Pulley DIA100 - P/No. 0L0789-01318
103	Check-in System - Drive Pulley DIA150 Crowned SA57/KAZ47 - P/No. 011507-481-51430
104	Check-in System - Drive Pulley V-Belt STC 205mm Type TB-12-PL - P/No. 004868-00100
105	Check-in System - Electrical Fan 230V 230m? SK3325.107 RAL7035 - P/No. 006003-02003
106	Check-in System - Emergency Cover Plate - P/No. 006881-00218
107	Check-in System - Emergency Relay 3TK28211CB30 - P/No. 006002-00150
108	Check-in System - Emergency Relay 3TK28301CB30 - P/No. 006002-00152
109	Check-in System - Emergency Stop in Enclosure with key - P/No. 0E1025-00002
110	Check-in System - Emergency Stop in Enclosure without Key - P/No. 0E1025-00001
111	Check-in System - Flange Bearing DIA40 2 Hole - P/No. N400063

112	Check-in System - Flat Cable Entry Bushing RA-C1-DF - P/No. 006010-00216
113	Check-in System - Flexam EX 8/2 0+A20 Black AS FR W=550 Endless - P/No. 004412-05512
114	Check-in System - Frontplate Alum. 1 Pos XAP-E301 - P/No. 006001-10474
115	Check-in System - H-A 3 Pin/Socket Insert Male - P/No. 1042-0000
116	Check-in System - Housing for XAP-E301 XAP-E901 - P/No. 006001-10475
117	Check-in System - JP 70 415/420V Electric Operator - P/No. R 3464-007
118	Check-in System - JP 70 Roller Shutter door Motor 380V - P/No. R3463-007
119	Check-in System - LMS DOL-1D/HanQ5/230Vac Brake RA-MO-005400-50006 - P/No. 005400-50006
120	Check-in System - LMS DOL-2D Con.Q5 Brk.230 RA-MO2.1-W4(230)/C3A-061 V2.4 - P/No. 005400-50016
121	Check-in System - Loadcell Cable LCC - P/No. R 3298-006
122	Check-in System - Loadcell OIML 65023-500kg - P/No. R 3298-001
123	Check-in System - Locking Part for Belt Edge Holder TS 1600 Grey - P/No. G1009427-V0001
124	Check-in System - Loctite 243 Nut Lock 50ml - P/No. 007232-00242
125	Check-in System - Logic module LOGOI 6ED1-052-1MI - P/No. 005303-00070
126	Check-in System - Main Control Switch 4P IU=32 3LD2203-1TL51 - P/No. 006013-10400
127	Check-in System - Miniature Circuit Breaker 2 400V 5SY61066 - P/No. 006012-05401
128	Check-in System - Miniature Circuit Breaker 400V 5SY4206-6 - P/No. 006012-07421
129	Check-in System - Miniature Circuit Breaker 400V 5SY4210-6 - P/No. 006012-07422
130	Check-in System - Miniature Circuit Breaker 400V 5SY4216-6 - P/No. 006012-07424
131	Check-in System - Monitoring Relay 3UG4512-1BR20 - P/No. 006011-01762
132	Check-in System - Motor Cable Local DOL Halogen Free L=10m - P/No. 006010-00168
133	Check-in System - Motordrive - P/No. R004560-009
134	Check-in System - Motordrum 00TL135 D=30 F=20 0,37KW /EURO/0,63 RL=554+ Cable - P/No. 000108-25563

135	Check-in System - Motordrum 99TL113 D=30 F=20 0,18KW /EURO/0,35 RL=570+ Cable - P/No. 000106-25735
136	Check-in System - O-ring 43, 4x3,6 NBR 70 Sh A - P/No. 006881-03825
137	Check-in System - Operator Panel-ABS950 OP950 - P/No. R 3298-003
138	Check-in System - PA End Lock - P/No. 008200-06366
139	Check-in System - PDC Cable - P/No. R 3298-005
140	Check-in System - PPI Sensor Assy - P/No. 0L9196-00001
141	Check-in System - PPI Sensor Wheel - P/No. 006881-00123
142	Check-in System - Panel PC P1515 Panel PC VI Config - P/No. 005302-20800
143	Check-in System - Passenger Panel-ABS950 PP950 - P/No. R 3298-004
144	Check-in System - Pedestal Bearing DIA35 - P/No. N1004192-V0001
145	Check-in System - Photoswitch Incl Reflector E3Z-KIT-42-VI= E3Z-R86+E39-R42 - P/No. 006002-14450
146	Check-in System - Power Cable LMS Halogen Free Cable L= 5000mm - P/No. 006010-00192
147	Check-in System - Power Supply 120/230V - 24V20A 6EP13362BA00 - P/No. 005510-00463
148	Check-in System - Power Supply PS950 - P/No. R 3298-007
149	Check-in System - Printboard AS-130 - P/No. R004560-008
150	Check-in System - RJ45 Mounting Frame 1689433 - P/No. 005301-00496
151	Check-in System - RJ45 Socket Insert 1653155 - P/No. 005301-00495
152	Check-in System - RU 5 x 400 mm Left BT0720 - P/No. R 3464-006
153	Check-in System - Relay Terminal PLC-RSC-24DC/21 No:2966171 - P/No. 006005-00900
154	Check-in System - Return Idler - P/No. G1009600
155	Check-in System - Ring Ret Shaft A20, DIN471 Ck 75 - P/No. 002746-00020
156	Check-in System - Ring Ret Tlock 2513-75 - P/No. 004840-90035
157	Check-in System - Rosta Tension Element SE-18 Conform - P/No. 004785-00018
158	Check-in System - Rubber Insert Bottom -P/No. 008200-06392
159	Check-in System - S 67 DV100M 4/ 2/ 2,20/ 41/ M6A/ 0/ EURO/ - P/No. 000081-00406
160	Check-in System - SK02050AZ D B H-80L4 Bre 10 HL 0,75/193/H3A/0 DEG - P/No. K1003847-V0024

161	Check-in System - SK02050AZ D B H-80L4 Bre 10 HL 0,75/193/H3B/0 DEG - P/No. K1003847-V0026
162	Check-in System - SK02050AZ D B H-90S4 Bre 20 HL 1,10/196,H3B/ 0 DEG - P/No. K1003847-V0025
163	Check-in System - SK02050AZB-80S4 / 0,55/ 146 / H3A/ 4/EURO/B/ Axle=DIA30 - P/No. 000704-11463
164	Check-in System - SK12063AZB-90L4 / 1,5/ 91 / H3A/ 4/EURO/B/ Axle= DIA35 - P/No. 000707-10913
165	Check-in System - SK12080-31-REP165 - P/No. P918-11071992056
166	Check-in System - Side Slat CW 470x155 T300NZ - P/No. 006881-00221
167	Check-in System - Signal Column Connect Element 8WD44080AA - P/No. 006013-10284
168	Check-in System - Signalling Column Siren Element 8WD44200EA - P/No. 006013-10271
169	Check-in System - Signalling Light Yellow 24V 8WD44200CD - P/No. 006013-10254
170	Check-in System - Sirius starter size S00, 9A, 3RW3016-1CB04 - P/No. 005400-10220
171	Check-in System - Slat TF SBR-6-B1 W=1000CW/CCW with Flex NOK - P/No. 006881-00233
172	Check-in System - Slat TT SBR-6-B1 W=1200CW - P/No. 006881-00229
173	Check-in System - Spare Belt for Belt Curve Conveyor TS 1600-105 YG=KT 96 RN=1000mm BN=1100mm wN=30DEG - P/No. U1009423-V0031
174	Check-in System - Spare Belt for Belt Curve Conveyor TS 1600-105 YG=KT 96 RN=1000mm BN=1100mm wN=90DEG - P/No. U1009423-V0001
175	Check-in System - Special Chain for Take Up - P/No. 059005-024-02413
176	Check-in System - Special Chain for Take Up - P/No. 059005-024-02425
177	Check-in System - Spring Carrier Bolt 2-D Chain Triplaner - P/No. 001693-41011
178	Check-in System - Spring Torsion DIA2,8mm 50668 - P/No. 001690-01025
179	Check-in System - Stabilized Power Supply Input 6EP1333-2AA01 - P/No. 005510-00461
180	Check-in System - Standard Aluminium Guide Plain RM2030 - P/No. R 3464-002
181	Check-in System - Subcon-Plus-Profib/PG/SC Profibus Art.2708245 - P/No. 005302-30021

182	Check-in System - T-Bar Aluminium + WStrIP DA0060 - P/No. R 3464-003
183	Check-in System - Tail Pulley Conical for TS 1600-105 FH RN=1000 mm BN=1100 mm - P/No. U1005044-V0001
184	Check-in System - Take Up Pulley DIA100 Cylinder - P/No. 059005-135-01180
185	Check-in System - Take Up Pulley DIA55 Crowned A =620 - P/No. 0L4400-40550
186	Check-in System - Take Up Pulley DIA55 Crowned A =620 - P/No. 0L4400-90550
187	Check-in System - Take-up Pulley DIA103 Crowned A=1027mm Axle=DIA40 - P/No. 011507-605-11027
188	Check-in System - Take-up Pulley DIA103 Crowned A=1060mm Axle=DIA40 - P/No. 011507-605-01060
189	Check-in System - Take-up Pulley DIA71 - P/No. 011507-611-01170
190	Check-in System - Temperature Regulator SK3110 - P/No. 006003-02498
191	Check-in System - Tension Roll 50mm - P/No. 0P9794-00001
192	Check-in System - Time-Counter for Distribution Board 7KT5801 - P/No. 006011-01765
193	Check-in System - Trimmer Box LC550 - P/No. R 3298-002
194	Check-in System - Triplanar Wheel 55 6004-2Z TP Low Noise - P/No. 0K4508-00002
195	Check-in System - UPS-APC SUA1500I - P/No. 006002-20000
196	Check-in System - V-Belt 3492-PL-12 Rippen Type: HUTCHISO - P/No. 004888-34923
197	Check-in System - Varistor AC127.240V DC150 250V 3RT19261BD00 - P/No. 006011-01628
198	Check-in System - Varistor AC24 48V, DC 24 70V 3RT1916-1BB00 - P/No. 006011-01626
199	Check-in System - Vertical Chain Pin - P/No. 0P9754-00001
200	Check-in System - Wheel Nylon PL80/30/112 (80x30x12) - P/No. 000760-10080
201	Check-in System-Ball bearing-P/No. 008200-62713
202	CheckIin System - M20 Glands - P/No.53111-020
203	Lovato Foot Pedals
204	Main Panel Filter Material
205	RECEIVER -TRANSMITTER
206	RUN-IN ROLLER SET LEFT
207	RUN-IN ROLLER SET RIGHT
208	Roller Shutter Door Limit Units
209	Roller Shutter Door Motors

210	Security Check Point Carrier Bearing
211	Security Check Point Geared Pully
212	Security Check Point Plastic Chain
213	Security Check Point Shaft
214	Security Check Point Single Phase Motor 0.18kW

ANNEX N

ACSA maintenance procedure for Baggage handling system - D080 029M

- Available upon request from the ACSA service manager

ANNEX O

Baggage handling system – standard operating procedure

Available upon Request from the ACSA service manager

ANNEX P

Maintenance of Baggage handling system – Electrical lockout procedure

Available upon Request from the ACSA service manager

ANNEX Q

Cape Town International Airport – operating instruction for Baggage handling system

Available upon Request from the ACSA service manager

ANNEX R

Baggage handling system - Fire Emergency procedure

Available upon Request from the ACSA service manager

ANNEX S

ACSA IMC procedure for call out and work orders

Available upon Request from the ACSA service manager

ANNEX T

Internal and external factors

Below is a list of internal and external factors which may affect equipment availability and are beyond the contractor's control:

	Type	**Comment**
External resources	Utilities •Water •Electricity •Gas •IT Support and other interfaces outside the contractor batery limit	-No impact to reliability/Maintainability. -It Impact on availability from operations view
External causes	•Outside Operating conditions/parameters •Operator fault/incorrect operation, consider shifting the risk to the Service provider by giving him responsibility to support Operations/Operators •Damage by others (users and Third parties) i.e. ground handlers, check in agents •Incorrect use •Foreign material is system as a result of other people	-No impact to reliability/Maintainability. -Impact on availability from operations view This are some of the occurrences that may not be considered the Normal Operating conditions
Other	•Lack of information/Drawings •Lack of access due to no fault of the contractor after they have requested acess timeosly •Equipment's under Projects •Other factors that can be proven that was beyond the contractor's fault	
Spares	Availability of spares (if the spares are not under the control of the Service provider to the limit of the budget)	-Affect Maintainability

	Typically: It is the responsibility of the Client to ensure adequate administration and re-order spares timely, It is the responsibility of the service provider to ensure that the stores administration is done and minimum stock levels are adhered to, the request to buy spare are replenished are done on time intime	No impact on service provider. The Risk is not sitting with a single owner

ANNEX U

ACSA Mechanical Standardised Minimum: legal requirements and minimum competency requirements

Site Supervisor	• Min SAQA Accredited Trade test (Millwright/Fitting/Electrician) • Any OHS training certificate	• Min 3 yrs experience in maintenance of conveyors and or carousels • Min 5 yrs experience in the management of a maintenance team comprising at least 10 people • Min 2 yrs experience in OHS
Technician (s)	• Min SAQA accredited Trade Test Certificate (Millwright) • Min SAQA Accredited Trade test (Fitting)	• Min 3 yrs experience in maintenance of airport Baggage Handling System carousels and conveyors or similar conveyors in a bulk material handling company
Assistants	N2 Mechanical/Electrical	• Min 1 yr experience in maintenance of mechanical or electrical systems

ANNEX V

ACSA Inventory procedure

Available upon Request from the ACSA service manager

Current Guarantee and Warrantee

N/A

Annexure X

Contract Exclusions

BHS Operations and Electrical Controls maintenance

Electrical Controls
Baggage Hall & Check in Counters
Conveyor Belts Line 1 -8 - including OOG • PLC Substation 1 – 10 & Controls components i.e. i/o modules, Contactors, Circuit Breakers, Relays & Safety Relays, key switches, Push buttons, LED's , UPS, etc • Sivacon Units and its components i.e KEB Invertors, I/O modules • PEC sensors and reflectors • ART Tag readers/Barcode Scanners including control panels • E stops and panels • Encoders, Tracking devices, Limit and Proximity switches • Monitors and Handheld Scanners
Induction lines & MCS • Monitor and Handheld Scanners • Sivacon Units, • PEC sensors and reflectors • ART Tag readers including control panels • E stops and panels • Encoders and Proximity switches
SORTER • Encoders and Proximity switches • Master, Distributor and Slaves Carriages- I/O modules • VSD /inverters • Sivacon units • Radio Modem and leak feeder Aerials • Profibus Cables • Local Junction box for LIM • LIM laser micro switches and limit switches • LIM inverters • HMI Controls • Hoop sensors and reflective beams • Encoder strips • Tray Commination cables

• Safety interlock switches • Profibus Repeaters • UPS battery
BHS- Domestic and International Carousel • Local junction box- stop and start(key switches) • PEC sensors and reflectors • E stops and relays • Limit , Transmitter and Proximity switches • Monitors including 1st and last bag SAC monitors • Sivacon unit • VSD • Asi Modules • PLC's • Profibus and ethernet cables • UPS batteries
CHUTES & LATAREL CHUTES • Chutes Monitor Screens • PEC Sensors and reflectors • I/O modules • Contactors • Sivacon units • Siren Indictors- beacon lights

CHECK IN COUNTERS & SECURITY CHECK POINTS

- LMS- local motor starter- similar to Sivacon
- Asi Modules
- Motor switch and Keys witches
- PPI – Plus Position Indicators
- Motor isolator switch
- Limit switches
- Proximity switches and Sensors
- Emergency stops
- Controls Cabinet- Connection box
- Profibus and ethernet cables
- Dispatch Control box
- Baggage Scales
- Siren Indicators-beacon lights
- UPS batteries
- SCADA

COMPUTER SERVER & OPERATING PROGRAMME – BHS AND CHECK IN COUNTERS

- SAC servers
- Router for SAC
- SAC Network Switches
- SAC processor servers -hardware and software
- SCADA – Check in Counters & BHS (including hardware)
- System interface i.e SAC bag stage , SICK RDT
- PLC's , Profibus cabling & Ethernet Communication for both Check in counters and BHS