

华南国际机场展会展出需求表

Requests and expectations

inter airport China | south

序号 SN	项目分类 Category	项目名称 Project Name	项目简介 Project Description	需求单位 Requested By
1	设备类 Equipment	道面清洗车 Road surface cleaning vehicles	可清洗跑道道面附着的油污并自回收 Vehicles that can remove and collect greasy dirt on road surface for oil recycling purpose	飞行区管理部 Airfield management department
2		灌缝机 Crack sealing machines	可快速修复飞行区场道裂缝 Machine that can quickly seal cracks of the runway in the Airfield	
3		排水沟割草/清淤设备 Mowing and dredging equipment to work at drainage ditches	可自动清理并回收排水沟内杂草 To automatically remove grass growth in the drainage ditches for recycling purpose	
4		大型排水抢险车 Large-scale drainage rescue vehicle	飞行区特大暴雨排水抢险排涝使用 To drain water in heavy rains for flooding emergency response	
5		多功能灯光作业车 Multi-functional lighting works vehicle	将各类维修工具备件集成到一辆车上，具备照明、发电、除尘、排水、道面钻孔等功能 A variety of repairs tooling integrated in one vehicle, including lighting, power generation, dust removal, drainage, and drilling	
6		电缆故障测试仪 Cabling failure detector	可精确判断灯光回路故障位置 To precision positioning of lighting failure	
7		多功能标记牌 Multi-functional sign boards	可变更标记牌亮度及面板上字符内容 Sign boards with variable luminance to show information	
8		低能耗设备定位装置 Low energy equipment positioning device	飞行区中无电源支持的设备适用的定位装置 To position non-powered equipment in Airfield	
9		航站楼垃圾清运设备 Waste disposal and transportation equipment in terminals	用于室内生活垃圾转运，垃圾存放箱封闭且易装卸、清洁 To transport waste indoor. The dust bin is closed and detachable. It's easy to clean	航站区管理部 Terminal management department
10		ABB、西门子、施耐德品牌等供电设备，约克、大金等品牌中央空调设备 Power supply and distribution from ABB, Siemens, and Schneider as well as central AC from York and Daikin		能源管理中心 Energy management center
11		鞋内扫描仪 Scanner for shoe inside	基于人工智能自动探测劳动保护鞋内爆炸物和金属危险品的鞋内扫描仪 AI-based scanner that can detect explosives and hazardous metals in labor protective shoes	货邮安检部 Cargo and postal service security inspection department
12		短途驳运场景下的移动安保链的创新设施与设备 Innovative equipment and facilities for mobile security chain and short-distance barges		货邮安检部 Cargo and postal service security inspection department

13		无人驾驶设备 Autonomous driving	无人驾驶摆渡车、行李牵引车、巡逻车等设备 Autonomous driving-enabled ferry buses, baggage tractors, and patrol vehicles	资产管理部 数字化管理中心 地服公司 Assets management department Digital management center Ground handling company
14		建议扩充民航专用设备，特别是新能源车辆、设备在国际机场的应用，包括国际品牌的推广、国际机场的应用案例 It is recommended to include civil aviation-related equipment, particularly new energy vehicles and equipment used in international airports, as well as adoption of international brand name products across airports		资产管理部 Assets management department
15	设备类 Equipment	储能设备（远机位 APU 替代设施、桥载电源、桥载空调及充电桩）在民航领域的应用 Energy storage (far side APU replacement, on bridge power supply, on bridge AC and charging piles, etc) in civil aviation		资产管理部 地服公司 Assets management department Ground handling company
16		货物堆垛机 Cargo stacking machines		物流发展公司 Logistics company
17		移动行李安检机 Mobile baggage security inspection device	安装在登机口的简易行李安检机，为外溢行李二次安检，顺利装机提供方便 Installed at the boarding gate for baggage security inspection, easy to use and install	地服公司 Ground handling company
18		中小运量轨道交通技术装备 Small and medium capacity transportation equipment		机电设备保障部 Mechanics and electricity facilities maintenance department
19		摆渡车自动消杀装置：摆渡消毒自动喷淋装置，在摆渡车作业完毕后实现对旅客厢进行自动消毒工作。 其他疫情防控新设备。 Automatic disinfection facilities for ferry buses: automatic spraying for disinfection of ferry buses Other new equipment for pandemic control		地服公司 机电设备保障部 Ground handling company Mechanics and electricity facilities maintenance department
20	技术类 Technology	基于生物识别技术的真无感安检技术 Biometrics-based true contact-less security inspection	迪拜机场的虚拟水族馆智能通道，游客环顾周围的游动的鱼群时，摄像机可以捕捉到他们脸部的每一个角度，快速识别，通道内设置约 80 个人脸识别技术摄像头，使用隐藏式摄像机在运动时扫描旅客的脸部或虹膜。 Entering the smart passageway of the virtual aquarium installed in the Dubai international airport, the visitor enjoys the view of swimming fishes around while the cameras get to capture the face from multiple angles. In so doing, quick identification is done. About 80 facial recognition-enabled cameras are installed in the passageway. Hidden cameras capture the face and the irises.	安全检查站 Security checkup station

21	技术类 Technology	X 光机 AI 自动判图技术 X-ray and AI automatic imaging recognition	适用于控制区道口分布在机场四周的场景应用、AI 自动判读安检机 X 光图像技术、X 光机物品筐的分拣/回筐系统、控制区道口车检通道车辆检查技术（包含车底检查、车顶检查、全车检查）、围界入侵报警技术。 Ideal for installation at checkpoints around the airport, including AI imaging reading, X-ray imaging, X-ray sorting, control area vehicle checkup (vehicle bottom, top, and whole vehicle), perimeter intrusion alert, among others	货邮安检部 航空护卫站 数字化管理中心 机电设备保障部 Cargo and postal service security inspection department Air security station Digital management center Mechanics and electricity facilities maintenance department
22				
23		BIM 技术应用 BIM application	在运维管理的应用案例，包括资产、设备、空间、能源等管理方面的应用，如航站楼智慧消防系统（基于 BIM 三维可视化的视频报警联动；基于 BIM 三维可视化的报警自动路径导航；基于边缘计算的消防设施设备预测性防护及数字孪生；航站楼消防设施设备的大数据分析。） Use cases in operations management, including assets, facilities, space, and energy management, such as smart fire control system in terminals (3D BIM visualisation alert and coordinated alarm, 3D BIM routing navigation with visual alarm, edge computing-based fire control and predictive intervention backed by digital twins, and big data analysis using fire control facilities in the terminal)	资产管理部 航站区管理部 Assets management department Terminal management department
24		货物体积自动测量技术 Automatic measurement of cargo volume		物流发展公司 Logistics company
25		货物精准定位技术 Precision cargo positioning		
26		登机桥自动靠接技术 Automatic docking of boarding bridge		资产管理部 机电设备保障部 Assets management department Mechanics and electricity facilities maintenance department
27		行李系统相关技术 Baggage handling system-related technologies	行李条码识别技术，行李监控图像处理技术，其他先进行李处理系统和设备 Identification of baggage barcode, baggage surveillance imaging processing, and other advanced baggage handling systems and equipment	机电设备保障部 Mechanics and electricity facilities maintenance department
28		物联网技术 IoT technologies	无动力设备物联网应用，如现场管理与调度系统 Non-powered IoT devices and applications, including onsite management and allocation system	数字化管理中心 地面服务公司 Digital management center Ground handling company

29		外围弱电间监管运用的设备或技术 Peripheral weak current cabinet supervision-related equipment and technology	数字化管理中心 Digital management center
30		鸟种识别系统 System to identify bird species 能 24 小时监测飞行区内活动的鸟类，发现并识别飞行区内鸟种，自动区分危险鸟种和非危险鸟种，通报鸟防人员，应用于飞行区内鸟击防范 Birds in the Airfield are monitored 7x24. Bird species identified for dangerous and non-dangerous ones. Personnel is alerted of bird activity to prevent any collision in the Airfield	飞行区管理部 数字化管理中心 Airfield management department Digital management center
31	跑道入侵预警系统/警报系统 Runway intrusion alert	能确定跑道附近的车辆、飞机、人的位置和速度判定是否存在跑道侵入风险 Identification of any runway intrusion risk, taking into account vehicle, aircraft, and human positioning and velocity	
32	道面巡检智能辅助设备/系统 Smart road surface patrol assistance	可智能识别 FOD 和道面病害 Smart identification of FOD and any other road surface damage	
33	智能交通路径规划系统 Smart transportation routes planning	实时显示航空器和车辆位置，并为其智能规划行驶路径 Aircraft and vehicle locations displayed on a real time basis to enable smart routes planning	
34	特种车辆共享系统 Special vehicle sharing system	根据航班机型机位时刻，安排最优保障车辆分配方案、向获得授权的驾驶员派发任务单、根据不同车型核定单价按日结算 The best vehicle allocation plan is made according to flights schedules. Authorized drivers receive work tasks and daily billing is done based on vehicle types	
35	智能电力系统运维云平台相关的设备 Smart power system operations and maintenance platform equipment	可以综合运用综合保护装置、多功能电力仪表、母排及线缆测温装置、变压器温控仪、视频摄像头、水浸烟雾、温湿度、门磁等多种传感器统一接入变电所现场的边缘计算网关，经边缘计算网关将数据封装、压缩、加密后上传至云平台。实现变配电所的 24 小时无人值守、集中监测各配电回路运行状态、统一调度运维巡检安排、通过手机 APP 下发运维任务实现线上线下联动，即时定位故障并处理风险等。 The use of comprehensive protection gears, multi-functional e-meter, busbar and cabling temperature sensing, transformer temperature controller, cameras, and integrated sensing for water, immersion, smoke, temperature, humidity, magnetic door lock connected with the edge computing gateway of the substation, which assembles, compresses, and encrypts the data before uploading it to the cloud. The substation does not require any human personnel onsite while it operates 7x24. The power lines are monitored and supplies are centrally managed and maintained, with patrol and checkups done. The maintenance tasks are distributed via the mobile app. Online and offline activities are integrated as any disruption or risk can be positioned and dealt with instantly.	
36	资产管理运维一体化系统 Integrated operations and maintenance of the assets management system	包括资产 BIM 建模，实现可视化的资产管理；建立贯穿资产全生命周期的管理数据库；资产盘点、调拨、报废等日常管理功能；资产运维管理功能，包括故障报修、维修过程等资产运维管理模块；资产数据的统计分析，如设备分类分项统计数据、维修记录分析 BIM modelling, visualized assets management; management database to cover the whole assets lifecycle; assets sorting, allocation, disposal, and other daily management functions; assets operations and maintenance functions, including repairs request, maintenance, and other modules; assets data analysis, including sorting data and maintenance records	航站区管理部 Terminal management department
37			

		施工作业智能监管系统 Smart management of construction works	能够对危险作业区域施工行为的智能监管，包括人证识别、违规行为自动智能识别、提醒、报警，实现现场无人监管；能够支持远程、多种终端设备实时监控现场；具备施工审批、施工管理评价等施工作业管理功能 Smart supervision of construction work in any potentially hazardous work site, including smart checkups of ID and non-compliant behaviors, alerts, and reminders. The site can be supervised without the presence of a human supervisor. Remote supervision and multiple supervisory devices are supported. Works permit, works management evaluation, and other works management functions are available	
38		水电冷领域智慧运维管理、基于大数据的智慧能源管理平台、电压暂降防治技术 Water, electricity, and cooling-related smart operations and maintenance + big data-based smart energy management platform		能源管理中心 Energy management center
39		车底成像检查系统 Vehicle bottom imaging inspection system	货库区对于需出入控制区的拖车车卡底部的智能化检查设备，改变目前依靠人工车底镜检查的模式，提高检查的准确性和效率 Smart inspection equipment to check out tractor bottom for any vehicle that needs to enter or leave the control area, a transit from the current manual process of using a mirror to check out the vehicle bottom, so as to improve inspection accuracy and effectiveness	
40	系统类 System	数字货运 Digital cargo	了解基于区块链技术实现数字货运的最新进展，从托运人到收货人的端对端的运输数字链条建设以及实现相关各方的货物运单电子化，并关联匹配安检图像信息，数据保留在源头，所有者决定谁可以访问或不可以访问他们的数据 The latest digital cargo developments employing blockchain technologies, end-to-end e-cargo billing and digital chain, connectivity with security imaging, data retained at the source, with access to be decided by the owner	货邮安检部 Cargo and postal service security inspection department
41		库区围界的巡逻 Warehouse perimeter patrol	基于智能机器人技术对库区内外围界进行巡视，可以自动感知围界边堆放物品、车辆停放是否符合距离及高度的要求，同时将信息传回监控室通知相关处置部门 Smart robotics-based patrol inside and outside warehouse, automatic sensing of objects stocked and car parked around perimeter for distance and height compliance, information to be relayed back to the control room and alerting relevant departments for any response, if required	
42		CT技术在货物安检领域的创新运用 Innovative use of CT technology in cargo security checkup	远场高分辨危险品探测以及远程微量爆炸物分析的最新技术，液体测试仪、检毒新技术 Farfield HD imaging of hazardous materials and remote detection of tiny explosive amounts as well as new technologies involving liquid and toxic detection	
43		机场内无道闸的捷运客流智能分析统计系统 Smart analysis of gate-free passenger traffic within the airport		机电设备保障部 Mechanics and electricity facilities maintenance department
44		基于红外感应技术和旅客运筹模型的安检现场旅客排队跟踪/测量系统和安全指挥系统（通道资源职能分配预警系统） Passenger queuing track and measurement at security check-ups based on IR and passenger planning models as well as security command system (routes resources job allocation alert)		安全检查站 Security checkup station
45		基于生物识别技术的视频分析跟踪系统（除开面部、着装外还包括旅客行为模式） Biometrics-based video analysis and tracking (including facial and attire recognition as well as passenger behavioral pattern)		
46		基于 AI 智能识图、监控的安检质控管理系统和安检数据化可视平台 AI-enabled imaging identification, security and quality checkup management system, and security data visualization platform		