ZBLA AD 2.1 机场地名代码和名称 Aerodrome location indicator and name

ZBLA-呼伦贝尔/海拉尔 HULUNBEIER/Hailar

ZBLA AD 2.2 机场地理位置和管理资料 Aerodrome geographical and administrative data

1	机场基准点坐标及其在机场的位置 ARP coordinates and site at AD	N49° 12.3' E119° 49.6' Center of RWY
2	方向、距离 Direction and distance from city	108° GEO, 7km from city center
3	标高 / 参考气温 Elevation/Reference temperature	660m/ 26° C (JUL)
4	机场标高位置 / 高程异常 AD ELEV PSN/ geoid undulation	The threshold of RWY09/-
5	磁差 / 年变率 MAG VAR/Annual change	9° W(1978)/-
6	机场管理部门、地址、电话、传真、AFS、电子邮箱、网址 AD administration, address, telephone, telefax, AFS, E-mail, website	Inner Mongolia Autonomous Regional Civil Aviation Airport Group CO. LTD, Hulunbeier branch, Hulunbeier Hailar Airport, Hailar 021000, Inner Mongolia Autonomous Region, China TEL: 86-470-8215010 FAX: 86-470-8277484 AFS: ZBLAZPZX
7	允许飞行种类 Types of traffic permitted(IFR/VFR)	IFR/VFR
8	机场性质 / 飞行区指标 Military or civil airport & Reference code	Civil/4C
9	备注 Remarks	Nil

ZBLA AD 2.3 工作时间 Operational hours

1	机场当局 (机场开放时间) AD Administration (AD operational hours)	H24
2	海关和移民 Customs and immigration	-- HS or O/R*
3	卫生健康部门 Health and sanitation	HS or O/R*
4	航行情报服务讲解室 AIS Briefing Office	HS or O/R*
5	空中交通服务报告室 ATS Reporting Office (ARO)	HS or O/R*
6	气象讲解室 MET Briefing Office	HS or O/R*
7	空中交通服务 ATS	HS or O/R*
8	加油 Fuelling	HS or O/R*
9	地勤服务 Handling	HS or O/R*
10	保安 Security	HS or O/R*
11	除冰 De-icing	HS or O/R*
12	备注 Remarks	*Application should be submitted before 08:00 UTC one day earlier

ZBLA AD 2.4 地勤服务和设施 Handling services and facilities

1	货物装卸设施 Cargo-handling facilities	Baggage transporters
2	燃油 / 滑油牌号 Fuel/oil types	Nr.3 jet fuel
3	加油设施 / 能力 Fuelling facilities/capacity	Refueling trucks (130000 litres)
4	除冰设施 De-icing facilities	De-icer (WGCB40E)
5	过站航空器机库 Hangar space for visiting aircraft	Nil
6	过站航空器的维修设施 Repair facilities for visiting aircraft	Nil
7	备注 Remarks	Nil

ZBLA AD 2.5 旅客设施 Passenger facilities

1	宾馆 Hotels	In the city
2	餐馆 Restaurants	In the city
3	交通工具 Transportation	Passenger's coaches and taxis
4	医疗设施 Medical facilities	First-aid equipment and ambulance at AD, hospital in the city
5	银行和邮局 Bank and Post Office	In the city
6	旅行社 Tourist Office	In the city TEL: 86-470-8346071; FAX: 86-470-8346072
7	备注 Remarks	Nil

ZBLA AD 2.6 援救与消防服务 Rescue and fire fighting services

1	机场消防等级 AD category for fire fighting	CAT6
2	援救设备 Rescue equipment	primary foam tender,heavy-duty foam vehicle,water tank truck, illumination truck,command car, rescue car
3	搬移受损航空器的能力 Capability for removal of disabled aircraft	Nil
4	备注 Remarks	Nil

ZBLA AD 2.7 可用季节 - 扫雪 Seasonal availability-clearing

1	扫雪设备类型 Types of clearing equipment	All seasons snow blowers,snow slingers,snow ploughs
2	扫雪顺序 Clearance priorities	RWY, TWY, Apron
3	备注 Remarks	Nil

ZBLA AD 2.8 停机坪、滑行道及校正位置数据 Aprons, taxiways and check locations data

1	停机坪道面和强度 Apron surface and strength	Surface:	Cement concrete
		Strength:	PCN 34/R/B/W/T(Apron 1) PCN 58/R/B/W/T(Stands Nr.12-18) PCN 61/R/B/W/T(Stands Nr.1-11)
2	滑行道宽度、道面和强度 Taxiway width, surface and strength	Width:	18m:TWY 1; 23m: TWY B, C
		Surface:	Cement concrete
		Strength:	PCN 34/R/B/W/T(TWY 1) PCN 61/R/B/W/T(north of TWY C) PCN 65/R/B/W/T(TWY B) PCN 70/R/B/W/T (south of TWY C)
3	高度表校正点的位置及其标高 ACL location and elevation	Nil	
4	VOR/INS 校正点 VOR/INS checkpoints	Nil	
5	备注 Remarks	Each side of TWYB and TWYC with 7.5m shoulders.	

ZBLA AD 2.9 地面活动引导和管制系统与标识

Surface movement guidance and control system and markings

1	航空器机位号码标记牌、滑行道引导线、航空器目视停靠 / 停放位置引导系统的使用 Use of aircraft stand ID signs, TWY guide lines and visual docking/parking guidance system of aircraft stands	Guide lines at all TWYs and apron; Aircraft stand identification sign board at apron.	
2	跑道和滑行道标志及灯光 RWY and TWY marking and LGT	RWY markings	THR, RWY designation, TDZ, center line, edge line, aiming point, runway turn pad
		RWY lights	Edge line, RWY end, THR, center line
		TWY markings	Center line, edge line, RWY holding positions, intermediate holding positions
		TWY lights	Edge line, RWY guard lights
3	停止排灯 Stop bars	Nil	
4	备注 Remarks	Blue apron edge line lights, blue reflector sticks for turn around area, green guiding lights for one-direction turn around.	

ZBLA AD 2.10 机场障碍物 Aerodrome obstacles

Obstacles within a circle with a radius of 15km centered on the ARP					
序号 Serial Nr.	障碍物类型 (* 代表有灯光) Obstacle type (*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected
1	*Chimney	009	6334	768.7	Circling
2	*Chimney	009	6303	719.4	
3	Chimney	033	6244	675.5	
4	BLDG	036	6087	700.1	
5	TWR	037	7169	667.5	
6	TWR	048	7660	680.6	
7	MT	064	14400	745.8	
8	Chimney	066	6732	668.6	
9	Chimney	066	6867	669.5	
10	Antenna	099	1096	672.6	Final approach
11	Chimney	188	5210	680.4	
12	TWR	223	9867	667.4	
13	TWR	224	9742	673.4	
14	Antenna	227	10089	683.7	
15	TWR	227	9170	666.1	
16	TWR	227	9305	664.4	
17	TWR	229	9842	662.8	
18	TWR	231	8633	676	
19	Chimney	232	10780	680.3	
20	TWR	244	5427	668.4	
21	TWR	250	5064	671.6	
22	TWR	261	8106	676.1	
23	Chimney	262	7128	677.5	
24	Enclosure	272	1800	666.3	
25	TWR	275	7020	680.5	
26	TWR	277	5497	689.1	
27	TWR	280	4323	692.7	

Obstacles within a circle with a radius of 15km centered on the ARP					
序号 Serial Nr.	障碍物类型 (* 代表有灯光) Obstacle type (*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected
28	TWR	281	4427	694.4	
29	TWR	283	5139	724	Final approach
30	Antenna	284	6947	695.1	
31	Lightning rod	284	6468	694.1	
32	TWR	286	7476	666.8	
33	Antenna	287	2512	699	
34	Antenna	288	2456	699.2	Final approach
35	Antenna	288	2621	695	
36	Antenna	290	2597	691	
37	Light pole	290	1631	682.1	
38	Antenna	291	2518	691.6	
39	Light pole	291	1572	681.6	
40	Antenna	291	1762	687.5	
41	Control TWR	292	1684	680.6	
42	Antenna	293	1730	687.4	
43	Antenna	294	1757	687.5	
44	TWR	294	5378	669	
45	TWR	294	9275	676.8	
46	TWR	296	4399	670.3	
47	Antenna	297	1514	687.5	
48	TWR	297	7455	690.2	
49	TWR	299	6824	669.5	
50	Chimney	300	1391	686.6	
51	Chimney	303	7219	735.3	
52	TWR	315	5248	665.4	
53	TWR	329	6156	666.3	
54	Scaffold	335	10900	743.1	
55	MT	335	11000	750.8	

Obstacles within a circle with a radius of 15km centered on the ARP					
序号 Serial Nr.	障碍物类型 (* 代表有灯光) Obstacle type (*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected
56	TWR	336	6929	666.9	
57	Chimney	346	6643	692.9	
58	TWR	352	5108	673.1	
Remarks:					

Obstacles between two circles with the radius of 15km and 50km centered on the ARP					
序号 Serial Nr.	障碍物类型 (* 代表有灯光) Obstacle type (*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected
1	MT	002	54500	908	
2	MT	004	30800	746	
3	MT	005	43000	831	
4	MT	014	50000	930	
5	MT	031	38500	929	
6	MT	037	55000	934	
7	MT	050	39800	902	
8	MT	063	15000	722	
9	MT	066	52500	873	
10	MT	071	16200	740	
11	MT	074	38000	774	
12	MT	080	25000	716	
13	MT	089	34600	777	
14	Contour	090	25000	705	
15	Contour	090	25200	745	
16	MT	097	27900	750	
17	Scaffold	097	26800	744	**
18	TWR	105	17644	686	
19	TWR	106	17700	677	
20	MT	112	45500	848	
21	Power TWR	115	20800	777	**
22	MT	117	21000	770	
23	MT	118	21400	825	
24	MT	120	18400	783	
25	MT	121	35500	812	

Obstacles between two circles with the radius of 15km and 50km centered on the ARP					
序号 Serial Nr.	障碍物类型 (* 代表有灯光) Obstacle type (*Lighted)	磁方位 BRG (MAG)(degree)	距离 DIST(m)	海拔高度 Elevation(m)	影响的飞行程序及起飞航径区 Flight procedure/take-off flight path area affected
26	MT	122	29000	798	
27	MT	127	24800	779	**
28	MT	131	20200	752	**
29	MT	137	32400	749	
30	MT	139	50500	945	
31	MT	140	23400	826	
32	MT	141	28000	830	
33	MT	143	57000	1024	**
34	MT	145	38500	847	
35	MT	151	24500	841	**
36	MT	158	22500	791	
37	MT	159	53500	905	
38	MT	162	36500	800	
39	MT	166	21000	700	
40	MT	177	51500	781	
41	MT	179	36200	761	
42	MT	230	23100	749	
43	MT	254	28600	706	
44	MT	282	50500	708	
45	MT	294	55000	934	
46	MT	324	51500	839	
47	MT	324	49600	807	
48	MT	356	42200	779	

Remark:

1. ** Control OBST
2. Other obstacles refer to AD OBST chart.

ZBLA AD 2.11 提供的气象信息、机场观测与报告

Meteorological information provided & aerodrome observations and reports

1	相关气象室的名称 Associated MET Office	Hulunbeier Hailar ATMB MET Office
2	气象服务时间、服务时间以外的责任气象室 Hours of service, MET Office outside hours	H24 --
3	负责编发 TAF 的办公室 ; 有效期 Office responsible for TAF preparation,Periods of validity	Hulunbeier Hailar ATMB MET Office 9 HR
4	着陆预报类型、发布间隔 Type of landing forecast, Interval of issuance	Trend 1 HR
5	所提供的讲解 / 咨询服务 Briefing/consultation provided	P, T
6	飞行文件及其使用语言 Flight documentation, Languages used	Chart, International MET Codes, Abbreviated Plain Language Text Ch, En
7	讲解 / 咨询服务时可利用的图表和其它信息 Charts and other information available for briefing or consultation	Synoptic charts, significant weather charts, upper W/T charts, satellite and radar material, AWOS real-time data
8	提供信息的辅助设备 Supplementary equipment available for providing information	FAX,MET information data system, MET service terminal
9	接收气象信息的空中交通服务单位 ATS units provided with information	Hailar TWR, Hailar ACC
10	观测类型与频率 / 自动观测设备 Type & frequency of observation/ Automatic observation equipment	Hourly plus special observation/Yes
11	气象报告类型及所包含的补充资料 Type of MET Report & supplementary information included	METAR, SPECI, TREND
12	观测系统及位置 Observation System & Site(s)	SFC wind sensors: RWY 09: 110m S of RCL, 310m inward THR; RWY 27: 110m S of RCL, 310m inward THR. RVR EQPT: A: 115m S of RCL, 340m inward THR; B: 115m S of RCL, 340m inward THR. Ceilometer: RWY 09: 115m S of RCL, 330m inward THR; RWY 27: 115m S of RCL, 330m inward THR.
13	气象观测系统的工作时间 Hours of operation for meteorological observation system	HO
14	气候资料 Climatological information	Climatological tables AVBL
15	其他信息 Additional information	TEL: 0470-8215165 FAX: 0470-8277482

ZBLA AD 2.12 跑道物理特征 Runway physical characteristics

跑道号码 Designations RWY NR	真方位和磁方位 TRUE & MAG BRG	跑道长宽 Dimensions of RWY (m)	跑道强度 (PCN), 跑道道面 / 停止道道面 RWY strength (PCN), RWY surface/SWY surface	着陆入口坐标及高程异常 THR coordinates and geoid undulation	跑道着陆入口标高，精密进近跑道接地地带最高标高 THR elevation and highest elevation of TDZ of precision APP RWY
1	2	3	4	5	6
09	084° GEO 093° MAG	2800 × 45	70/R/B/W/T Concrete/ Concrete	Nil	THR 659.5m --
27	264° GEO 273° MAG	2800 × 45	70/R/B/W/T Concrete/ Concrete	Nil	THR 655.6m --
跑道 - 停止道坡度 Slope of RWY-SWY	停止道长宽 SWY dimensions (m)	净空道长宽 CWY dimensions (m)	升降带长宽 Strip dimensions (m)	无障碍物地带 OFZ	跑道端安全区长宽 RWY end safety area dimensions (m)
7	8	9	10	11	12
RWY09/27 -0.5%(680) - 0.25%(200) 0%(1920)	60 × 60	1100 × 300	2920 × 300	Nil	240 × 300
RWY09/27 -0.5%(680) - 0.25%(200) 0%(1920)	60 × 60	300 × 300	2920 × 300	Nil	240 × 300
Remarks:					

ZBLA AD 2.13 公布距离 Declared distances

跑道代号 RWY Designator	可用起飞滑跑距离 TORA (m)	可用起飞距离 TODA (m)	可用加速停止距离 ASDA (m)	可用着陆距离 LDA (m)	备注 Remarks
09	2800	3900	2860	2800	Nil
27	2800	3100	2860	2800	Nil
Remarks:					

ZBLA AD 2.14 进近和跑道灯光 Approach and runway lighting

跑道代号 RWY Designator	进近灯类型、长度、强度 APCH LGT type LEN INTST	入口灯颜色、翼排灯 THR LGT colour WBAR	目视进近坡度指示系统 (跑道入口最低眼高), 精密进近航道指示器 VASIS (MEHT) PAPI	接地地带灯长度 TDZ LGT LEN	跑道中心线灯长度、间隔、颜色、强度 RWY Center line LGT LEN, spacing, colour, INTST	跑道边灯长度、间隔、颜色、强度 RWY edge LGT LEN, spacing, colour, INTST	跑道末端灯颜色 RWY end LGT colour	停止道灯长度、颜色 SWY LGT LEN, colour
1	2	3	4	5	6	7	8	9
09	SALS 420m LIM	Green --	PAPI Left/3°	Nil	2800m* Spacing 30m	2800m** Spacing 60m	Red	Nil
27	PALS CAT I 900m VRB LIH	Green --	PAPI Left/3°	Nil	2800m* Spacing 30m	2800m** Spacing 60m	Red	Nil
Remarks: * up to 1900m white LIH, 1900-2800m Red/White LIH ** up to 2200m White VRB LIH, 2200-2800 Yellow VRB LIH								

ZBLA AD 2.15 其它灯光 , 备份电源 Other lighting, secondary power supply

1	机场灯标 / 识别灯标位置、特性和工作时间 ABN/IBN location, characteristics and hours of operation	Nil
2	着陆方向指示器位置和灯光 ; 风速表位置和灯光 LDI location and LGT, Anemometer location and LGT	Nil
3	滑行道边灯和中心线灯光 TWY edge and center line lighting	Edge line lights for all TWYs
4	备份电源 / 转换时间 Secondary power supply/switch-over time	Standby power(400kw) supply available/ 15sec
5	备注 Remarks	Nil

ZBLA AD 2.16 直升机着陆区域 Helicopter landing area

1	TLOF 坐标或 FATO 入口坐标及高程异常 Coordinates TLOF or THR of FATO Geoid undulation	Nil
2	TLOF 和 / 或 FATO 标高 (m) TLOF and/or FATO elevation (m)	Nil
3	TLOF 和 FATO 区域范围、道面、强度和标志 TLOF and FATO area dimensions,surface, strength, marking	Nil
4	FATO 的真方位和磁方位 True and MAG BRG of FATO	Nil
5	公布距离 Declared distance available	Nil
6	进近灯光和 FATO 灯光 APP and FATO lighting	Nil
7	备注 Remarks	Nil

ZBLA AD 2.17 空中交通服务空域 ATS airspace

名称 Designation	横向界限 Lateral limits	垂直界限 Vertical limits	备注 Remarks
Hailar tower control area	A circle, radius 55km centered at VOR/ DME(HLD)	By ATC	
Altimeter setting region and TL/TA	A circle, radius 55km centered at VOR/ DME(HLD)	TL 3600m TA 3000m 2700m(QNH ⩽ 979hPa) 3300m(QNH ⩾ 1031hPa)	

ZBLA AD 2.18 空中交通服务通信设施 ATS communication facilities

服务名称 Service Designation	呼号 Call sign	频率 Frequency (MHz)	工作时间 Hours of operation	备注 Remarks
1	2	3	4	5
ATIS		126.2	H24	D-ATIS available
TWR	Hailar Tower	118.5 (124.35)	HO	Nil
GND		121.65	HO	Nil

ZBLA AD 2.19 无线电导航和着陆设施 Radio navigation and landing aids

设施名称和类型 Name and type of aid	识别 ID	频率 Frequency	发射天线位置、坐标 Antenna site coordinates	DME 发射天线标高 Elevation of DME transmitting antenna	备注 Remarks
1	2	3	4	5	6
Hailar VOR/DME	HLD	115.1MHz CH 98X	N49° 12.2′ E119° 49.3′	667m	
Xiha NDB	UC	351kHz	49° 13.1′ 119° 57.7′ 092° MAG/ 9955m FM RWY center		
LMM 27	U	712kHz	093° MAG/ 1050m FM THR RWY 27		
LOC 27 ILS CAT I	IUC	110.3MHz	273° MAG/ 315m FM THR 09		
GP 27		335.0MHz	099° MAG/ 120m S of RCL,310m FM THR27		Angle 3° RDH 15m
Remarks:					

ZBLA AD 2.20 本场飞行规定

1. 机场使用规定

所有技术试飞需事先申请，并在得到空中交通管制部门批准后方可进行。

2. 跑道和滑行道的使用

无

3. 机坪和机位的使用

ZBLA AD 2.20 Local traffic regulations

1. Airport operations regulations

Each and every technical test flight shall be filed in advance and conducted only after clearance has been obtained from ATC.

2. Use of runways and taxiways

Nil

3. Use of aprons and parking stands

3.1 4、7、8号机位可供翼展52m及以下飞机使用；11号机位可供翼展42m及以下飞机使用；1-3、5、6、9、10、12-18号机位可供翼展36m及以下飞机使用。

3.1 Stands Nr.4, 7, 8 are available for aircraft with wing span not exceeding 52m; stand Nr.11 is available for aircraft with wing span not exceeding 42m; stand Nr.1-3, 5, 6, 9, 10, 12-18 are available for aircraft with wing span not exceeding 36m.

3.2 进出机位规定：1-3、12-18号机位为自滑进出机位；4-11号机位为自滑进顶推出机位。

3.2 Aircraft parking on stands Nr.1-3, 12-18 shall taxi in and out by its own power; aircraft parking on stands Nr.4-11 shall taxi in and be pushed back by tow tractors.

3.3 发动机试车，需经塔台许可，并在指定的地点进行.

3.3 Engine run-ups are subject to Tower Control clearance, and shall be carried out at a designated location.

4. 进、离场管制规定

4. Air traffic control regulations

无

Nil

5. 机场的 II/III 类运行

5. CAT II/III operations at AD

无

Nil

6. 除冰规则

6. Rules for deicing

无

Nil

7. 平行跑道同时仪表运行

7. Simultaneous operations on parallel runways

无

Nil

8. 警告

8. Warning

无

Nil

9. 直升机飞行限制，直升机停靠区

9. Helicopter operation restrictions and helicopter parking/docking area

无

Nil

ZBLA AD 2.21 噪音限制规定及减噪程序

无

ZBLA AD 2.21 Noise restrictions and Noise abatement procedures

Nil

ZBLA AD 2.22 飞行程序

1. 总则

除经塔台特殊许可外，在塔台管制区内的飞行，必须按照仪表飞行规则进行。

2. 起落航线

起落航线在跑道两侧均可，高度1000-1200米。

3. 仪表飞行程序

严格按照航图中公布的进、离场程序飞行。如果需要，航空器可在空中交通管制部门指定的航路、导航台或定位点上空等待或做机动飞行。

4. 雷达程序和 / 或 ADS-B 程序

无

5. 无线电通信失效程序

无

6. 目视飞行程序

无

ZBLA AD 2.22 Flight procedures

1. General

Flights within Tower Control Area shall operate under IFR unless special clearance has been obtained from Tower Control.

2. Traffic circuits

Traffic circuits shall be made to both sides of RWY, at the altitudes of 1000m-1200m.

3. IFR flight procedures

Strict adherence is required to the relevant arrival/departure procedures published in the aeronautical charts. Aircraft may, if necessary, hold or maneuver on an airway, over a navigation facility or a fix designated by ATC.

4. Radar procedures and/or ADS-B procedures

Nil

5. Radio communication failure procedures

Nil

6. Procedures for VFR flights

Nil

7. 目视飞行航线

无

7. VFR route

Nil

8. 目视参考点

无

8. Visual reference point

Nil

9. 其它规定

无

9. Other regulations

Nil

10. 区域导航飞行程序相关数据

无

10. Data for RNAV flight procedures

Nil

Waypoint list

ID	COORDINATES(WGS-84)	ID	COORDINATES(WGS-84)
HL802	N490044E1195422	HL813	N491341E1190339
HL808	N491252E1193104	HL901	N491716E1194921
HL811	N484326E1200150	HL903	N490512E1200407
HL812	N485433E1202608		

Waypoint sequence for RWY 09 departure

ELPUN-09D	(CA) 093° 900 MAX 390kmH	(DF) HL802 Right turn direction	HL811 ↑ 2700
KAGAK-09D	(CA) 093° 900 MAX 390kmH	(DF) HL901 Left turn direction	HL813 ↑ 1800
TEPOD-09D	(CA) 093° 900 MAX 390kmH	(DF) HL903 Right turn direction	HL812 ↑ 2700

Waypoint sequence for RWY 27 departure

ELPUN-19D	(CA) 273° 1200 MAX 390kmH	(DF)HL802 Left turn direction	HL811 ↑ 2700

KAGAK-19D	(CA) 273° 1200 MAX 390kmH	(DF)HL808 Right turn direction	HL813 ↑ 1800
TEPOD-19D	(CA) 273° 1200 MAX 390kmH	(DF)HL802 Left turn direction	HL812 ↑ 2700

Notes: The path code is TF except special explanation, the navigation performance is RNP1.

ZBLA AD 2.23 其它资料

本场各季鸟类多在 300m 以下飞行，有驱鸟车等防范措施。提醒机组注意。

ZBLA AD 2.23 Other information

Birds are active from ground up to 300m full seasons.Aerodrome Authority resorts to dispersal methods to reduce bird activities.