World Para Powerlifting

Appendix 2: Technical Requirements

Version 1.1

2025

Table of Contents

1   Competition Requirements

1.1   Venue

1.1.1   The WPPO Recognised Competition venue includes the below areas:

1.1.2   Competition Area: FOP (stage and platform).

1.1.3   Call area and Warm Up area

1.1.4   Victory Ceremonies call area

1.2   Competition Venue

1.2.1   The competition venue may be an indoor or outdoor site with a minimum available height of 10m and able to accommodate the necessary areas at the dimensions listed below.

Area	Minimum		Comments
	Length	Width	
Competition Area	15m	25m	include the Field of Play
Warm Up Room	25m	15m	Or vice-versa (15mx25m)
Call Area **(incl. Victory Ceremony call area)**	20m	20m	Close to the FOP and Warm-up Area
Weigh-in	12m	5m	include the 3 rooms of 4m x 5m each
Weigh-in Waiting Room	7m	6m	suggested
Kit check	5m	5m	
Training area	15m	15m	or 25m x 10m

1.3   Field of Play Area (FOP)

1.3.1   The FOP area at the competition venue is comprised in accordance with the following dimensions:

Measurements				
Area		Length	Width	High	Comments
Stage*	Minimum**	11m	10m	Minimum 50cm	Minimum width is excluding ramps
	Maximum***	12m	12m	Maximum 70cm	Maximum width is including the ramps
	Ramps****	5-7m	Minimum 1.2m	Please consider the inclination of the ramp according to the stage measurements	

* The stage should be of a round shape. Mandatory for Paralympic Games, Regional Games and WPPO Championships

** If the length of the stage is less than 12m then the victory ceremonies will not be permitted to take place on the stage and must be held in an alternative location close to the FOP.

*** Mandatory for Paralympic Games, Regional Games and WPPO Championships

**** There may be two (2) separate ramps for the entry and exit to / from the stage in order to maximise the flow and efficiency of the competition (unless otherwise agreed by the LOC and WPPO).

1.3.2   LED boards should be added around the FOP to display event logo, athlete information (Name, flag, attempt)

1.3.3   The surface of the stage and platform must have a flat and non-slip surface, and the stage must be able to support a minimum weight of 2,000kg.

Measurements			
Area		Length	Width	Comments
Platform	Minimum	4m	4m	Never exceed 5cm in height
	Maximum	4m	4m	

1.3.4   The following spaces (tables) shall be located adjacent to the FOP/stage:

1.3.4.1   Technical tables

1.3.4.2   Technical delegate table

1.3.4.3   OVR table

1.3.4.4   Sports production tables

1.3.4.5   IF table

1.3.5   The following additional accessible functional areas are required. Should be located close to the FOP:

1.3.5.1   Kit check area

1.3.5.2   Anti-doping / education outreach area

1.3.5.3   Accessible changing rooms

1.3.5.4   Athletes' rest area

1.3.5.5   Athletes' toilets for each gender

1.3.5.6   Doping control station

1.3.5.7   TD/TDA office

1.3.5.8   Technical officials' room

1.3.5.9   Technical officials' toilets for each gender

1.3.5.10   LOC competition management office(s)

1.3.5.11   Medical / first aid room

1.3.5.12   WPPO office

1.3.5.13   Mixed zone

1.3.5.14   Media working room

1.3.5.15   VIP room

1.3.5.16   Victory ceremonies preparation area

1.3.5.17   On venue results room (OVR)

1.3.5.18   Sports information desk (SID)

1.3.5.19   Transport drop area

1.3.5.20   Accreditation desk

1.3.5.21   Storage room

1.3.6   The following spaces shall be located adjacent to the FOP:

Technical table	▪ A table(s) of adequate size to easily accommodate 5 - 6 persons in office sized chairs ▪ Two (2) monitors with scoreboard feed ▪ One (1) wireless microphone ▪ Clear view of the scoreboard and FOP
VRS ITOs table	▪ A table(s) of adequate size to easily accommodate 3-persons in office sized chairs ▪ Three (3) monitors with VRS (video Replay System)
Technical Delegate (TD) table	▪ One (1) desk/table and office chair ▪ One (1) TV monitor with scoreboard feed ▪ Unrestricted view of the F.O.P, scoreboard & clock ▪ Directly adjacent and or, where space permits, alongside the Technical Control Table ▪ Safe and unrestricted access behind the Technical Control Table
On Venue Results (OVR) table	▪ Directly behind the Technical Control Table ▪ Clear view of the scoreboard ▪ Four (4) desks/tables and chairs for the workforce ▪ Secure data network throughout the venue and technical support ▪ Office equipment: one (1) computer with hi-speed internet access ▪ One (1) Black & white printer ▪ 500 sheets of paper ▪ Technical equipment determined by the respective provider ▪ Backup power supply ▪ 2 Volunteers and operators (English speakers)
Marshall Table	▪ 1 chair
IF table	▪ One (1) computer with access to the internet ▪ One (1) multi-functional printer ▪ 500 sheets of paper
Sports Presentation	▪ The location can be just outside the FOP or in an isolated room with perfect view of the FOP and timing and results scoreboards. It must be a separate area from the OVR.

1.3.7 Other Competition related Facilities

1.3.7.1 The LOC must provide the following facilities close to the FOP:

Technical Delegate and WPPO Staff	Two (2) secure, lockable, private rooms (each no less than 4 sq.m). Each room must contain: ▪ One (1) desk/table, ▪ Two (2) office chairs ▪ One (1) telephone ▪ High-speed Wi-Fi and/or network for internet access ▪ One (1) network printer connected to the computers to allow for printing and 500 sheets of paper. ▪ One (1) notice board + Whiteboard & Pens ▪ One (1) trash container ▪ Readily available access to drinks and snacks
International Technical Officials' Room	One (1) secured room (minimum size 6m x 3m) which requires: ▪ An adequate number of tables, or table space, to easily accommodate up to 20 officials at any one time* ▪ 1 chair per ITO, plus 2/3 additional chairs ▪ One (1) notice board ▪ High-speed Wi-Fi internet access ▪ Secure Lockers to be provided for all officials to leave their valuables, etc. ▪ Access to drinks and snacks. *All debriefs with Technical Officials will happen in this room
Kit Check area	At the Warm-up entrance or inside the Warm-up at the competition venue ▪ One (1) desk ▪ Two (2) office chairs ▪ 10 chairs / including spaces for wheelchairs
Sports Information Desk (SID)	One (1) area/room in an area of the venue that is accessible for all teams (preferably near to where the teams enter the venue). Official Games communications will be distributed to teams here. The room requires: ▪ One (1) distribution mailbox for each participating country ▪ One (1) results board (minimum size 3mx1.5m) ▪ One (1) information notice board (minimum size 1.5m x 1.5m) ▪ 150.000 sheets of paper ▪ Recycling bin ▪ Stationary – Stapler, Sticky tape, Pens/pencils ▪ One (1) network printer connected to the results network

	▪ Two (2) high speed photocopiers (80ppm minimum) with technical support ▪ One (1) computer with access to the internet ▪ Wi-Fi and/or network for internet access
Victory Ceremonies Preparation Room	One (1) room (approx. 25 sq.m in size) adjacent to ceremonies area.
Medical Services Area	In consultation with the IPC Medical & Scientific Department. - refer to Medical Service requirements document

1.3.7.2 The LOC must provide the following facilities at the accommodation:

Weigh-in Room	One (1) room (approx. 25 sq.m in size) split with changing room and weigh-in area

1.4 Technology equipment

The LOC must provide all Sports equipment quantities for all equipment as outlined below (refer to WPPO Rules and Regulations):

Area	Equipment
FOP	1 Screen at least 6m x 5m. Capable of showing results, other data and pictures (score board) 1 monitor showing scoreboard for Speaker announcer 1 monitor for LiftED 1 monitor showing attempt board data **Lift Video Replay System (LVRS):** Referee to control the replay and share to each VRS ITO: 3 LOC monitors or PO tablets (can be iOS or Android) or with internet access, HDMI cables to the main terminal LVRS Referee terminal (and scoreboard?)

Item	Amount	Supplier	Notes
Monitors/ Tablets*	3	LOC	Referee
Cabling	As needed	LOC	Main terminal to monitors, scoreboard
Switcher	1-2	WPPO	Main terminal to monitors, scoreboard
Laptop	1-2	WPPO	Coding, Operator

If tablets and screen share, it will require a private network. |
| **Call area** | 2 monitor showing attempt board data
1 monitor for cctv showing competition feed |

	1 scoreboard (current/next group) 1 monitor for VRS ITO/referee feedback (lift challenge)
Warm-up	1 monitor showing attempt board data 1 monitor for cctv showing competition feed 2 scoreboards showing current/next group
Mixzed Zone (N/A for Games)	Mixed Zone (Victory ceremony 2): 1 computer capable to play the flags 1 standing screen to display the flags 1 microphone

Equipment	Quantity	Specifications
Handy camera	1	Technical feed to warm up area (live competition)
Timing & Scoring System	1	A WPPO VRS ITO approved system consisting of two rows of three red and three white indicators, which can be either a stand-alone system or as part of an integrated attempt board system must be provided by which the VRS ITO will make known their decisions following each lift
OVR system	1	Live results
e-Marshal system	1	Electronic marshal
Speakers	2	To allow Announcer's voice to be heard in all areas of F.O.P, Call area and warm-up area
Lights	1	According to Broadcasting requirements

1.5   Results & Information System

1.5.1   LOC is responsible for planning and implementing all the technological services necessary for the successful operation of the Championships, including the On-Venue Results (OVR), On-Line Results systems, the Timing and Scoring services, and the 'TV Graphics'. Please refer to the PARIS document (Results Information System) to be developed.

Approved Companies	Approved Systems		
	OVR	Timing & Scoring	e-Marshal
EASY SPORT	Yes	Yes	Yes
PORS	Yes	Yes	Yes

1.6 Sports Presentation equipment requirements

1.6.1 To protect the athlete's rights, it is necessary that there is absolute privacy in the classification

Hardware specification			
Name (Brand)	**Model**	**Brief description**	**Unit**

SOUND				
PA-System				**Quantity**
Dynacord	Line Array Fx12 - Top	Two-way speaker system (linear array element)	unit	6
Dynacord	Line Array Fx20 - Sub	Subwoofer 18 "(linear array element)	unit	8
Dynacord	FG600	Line array element (iron)	pair	12
Dynacord	Xa4000	High quality amplifier with integrated crossover.	unit	4
Stage monitors - In Ears systems				**Quantity**
Electro voice	Tour-x 115	Stage monitors	unit	8
		(2-way stage monitor)		
Electro voice	Q66	High quality monitor amplifier	unit	4
Mixing Consoles				**Quantity**
Beringher	X-32	Mixing console 32 ch. mono + 16 ch. Aux send	unit	1
Aple	Ipad mini	The tablet	unit	1
		(remote-control)		
TpLink	Keenetic Ciga Wi-Fi	Wi-Fi router	unit	1
UPS	1500	UPS 1500W Uninterruptible power supply	unit.	1
Beringher	Beringher S16	AES / EBU stereo output	unit	1
Legrand	SFTP Cat 6e	Cable for Amplifier Control Interface	unit	1
Wireless Microphone Systems and Accessories				**Quantity**
Shure	Qlxd Beta 58 H51	Handheld radio microphone	unit	6
	Qlxd24	Unary receiver	unit.	6
	UA845	Radio splitter for	unit	2
		4-x Shure UHF-R		
	HA8089	UHF antenna for radio systems:	unit	2
		14 dB, 550-900 МГц, BNC		
K&M	27015 Stand	Stand microphone, telescopic, black, "crane"	unit	6
ASUS	8565NGW	Laptop to play sound	unit.	1

Light				
Intelligent Managed Devices				**Quantity**
DAGE	HM 3826	"Moving Head" Beam-Spot - 380W	unit	20
ACME	CM 600II	"Moving Head" RGBWY - LED Wash - 660W	unit	20
Spotlight	DTS Par64 long	Static device for warm lighting of the hall1000w	unit	36
Weinas	D 3296	RGBW led bar filling light 360W	unit	24
Smoke generators and turbines				**Quantity**
Smoke Factory	Antari550	Smoke generator (fog - machine)	unit	2
Controllers				**Quantity**
Avalite	TugerTuchII	Intelligent Light Control Panel	unit	1
Starville	DMX Split 4x	Splitter DMX-512	unit	4
Video projection				**Quantity**
Indoor Led	Novastar Led	LED modular screen for indoor use.	Sq m	60
Screen		Stand for Led screenh-4,0м	unit	18
Novastar	VDWALL605	Video processor	unit	3
Cramer	Led HDMI 8/4	Splitter for video distribution	unit	2
Legrand	BMS cabel	Extension cord for broadcasting BMS reel up to 75 m	unit	2
HP	Media resolume	Media server to convert video	unit	1
Intel	Core i7	Computer based on Intel Core i7 processor with Led Studio software with monitor	unit	2
		uninterruptible power system1200W	unit	1
Farms, tripods, electric winch				**Quantity**
Prolyte	Stage Service	Stage podium, modular, 1x2m, height from 0.2m to 1.6m, carrying capacity up to 350kg / sq.m.	unit	10
Prolyte	H30V-L200	Farm Quadrolite 30x30 - 3m	unit	10
Prolyte	H30V-L200	Farm Quadrolite 30x30 - 2m	unit	8
Mode	Mode m6/8/4	Winch control console 4 can.	unit	1
		Cable for electric winch	unit	4
Mode	Mode m6-w	Electric winch 1000 kg, 4m / min., Chain 28 m	unit	7
		Spanet 4m - 2t	unit	14
		Rope with carbine 60m	unit	1
VOSS	Helmet	Construction helmet	unit	2

CS	Такелаж	Chekelya, spansets, carbines, coupling belts, hammers, keys, rope, etc.	package	1
Kenwood	TK-2206	136-174 МГц, 16ch. 5W	unit	6
		Wearable radio with headset		

Power and signal cable				**Quantity**
Cordial	MY206	Microphone cable	package	1
Cordial	MY207	Cable DMX-512	package	1
Cordial	LSC840	Acoustic cable 2x1	package	1
Cordial	LSC441	Acoustic cable 4x1 Speacon	package	1
		Acoustic cable 5x16 (63A)	package	1
		Acoustic cable 5x10 (32A)	package	1
		Acoustic cable 5x4 (16A)	package	1
		Acoustic cable 3x2,5 (16A)	package	1
		Acoustic cable 3x1,5 (10A)	package	1

Distributors (electrics)				**Quantity**
Alpenbox	Mobile	3 phases, in. PCE-32A, Out 6*Shucko	unit	2
Alpenbox	Mobile	3 phases, in. PCE-32A, Out 6*Shucko-1m	unit	2
Alpenbox	Mobile	3 phase, in. 32 A, Out 6x16A 3 pol.	unit	2
	PSA-63	3 phase, in. 63 A, out. 2x32 A	unit	2
	PSA-631	3 phase, in. 63 A, out. 4x32 A	unit	1
		3 phases, in 63 A, out. 5*CEE-32A, 1*CEE-16A, 1*Shuko	unit	1
	Power splitter 32	3 phases, in/out-CEE-32A, out-6*Schuko 1m	unit	6
		3 phases, in/out-CEE-32A, out-6*CEE-16A, 4*Schuko	unit	2
	Defender	Cabel - channel 2к	unit	20

Expendables				**Quantity**
		Gaffa (?)	unit	3
		Fluid for smoke machines	litre	5
		Battery	package	60
		AA - 2]		

Communication Radios (Riedel System)				**Quantity**
Key panels – desktop – 1000 series	Show caller, video director, English announcer, technical announcer		unit	4

6channel bolero	Floor manager, Special Effects, audio operator, lighting, camera operator, DJ, 3 referees, ceremony manager, spotlight,	unit	10
Tetra Radios	WPPO & LOC staff	unit	10
Audio - SPR			**Quantity**
Pioneer CDJ2000 NXS		unit	2
Pioneer DJM 900		unit	1
Playback Laptop with Olab Software		unit	2
Video - SPR			**Quantity**
FOR.A – HVS2000 2ME video switcher		unit	1
I7 Laptops with Playback PRO	Alternate software: Millumen	unit	2
Laptop with Adobe Photoshop, PowerPoint and Final cut Pro		unit	1
EVS	Or: media server Resolume Arena 6, 8 outputs, core I7, 32 GB memory, 2x512 SSD, Nvidia Geforce 1080	unit	1
Multi-view monitors	One monitor with 4 inputs or alternatively 4 separate monitors on each set	unit	4
Video rack w. scaler		unit	4
8TB HDD hard drive	For program feed record and content	unit	1
Wireless ENG Camera	To be provided by broadcaster, but designated just for Sports Presentation	unit	1
Wireless array	Full coverage of the venue for the wireless camera	unit	1
Special Effects - Smoke			**Quantity**
CO2 cryo-jet heads	With multiple back up tanks	unit	16
LED PAR's	To colour change the co2	unit	32
Pyro Sparklers	Close proximity for athlete entry and/or world record	unit	60
Technical staff			**Quantity**
Sound producer	Assemble disassemble, maintenance of equipment	person	1
Sound engineer	Assemble disassemble, maintenance of equipment	person	1
Lightning designer	Assemble disassemble, maintenance of equipment	person	1
Light engineering	Assemble disassemble, maintenance of equipment	person	1
Video engineer	Assemble disassemble, maintenance of equipment	person	2
Electrician	Assemble disassemble, maintenance of equipment	person	1
high-altitude worker	Assemble disassemble, maintenance of equipment	person	1
Stage worker (loader - installer)	Assemble disassemble, maintenance of equipment	person	8
Lighting Operator	Operator	person	1
Spotlight Operator	Operator	person	1
Sound Engineer/Operator	Operator	person	1
Camera Operators (Broadcasting)	Operator	person	1
SFX operator (smoke, pyro, etc.)	Operator	person	1
Comm's technician	Operator	person	1
Other items			**Quantity**
Power cables with minimum 10 power plugs		unit	2

4 tables	unit	4
6 chairs	unit	6
coloured printer	unit	1
desk lamps	unit	5
garbage bins	unit	2
Dedicated wireless internet (fast enough for downloads of large files such as videos, etc.)	unit	1

2   Competition Management

2.1   Competition Officials' Requirements

2.1.1   The LOC must provide services for all appointed competition officials':

2.1.2   A minimum honorarium payment of 35 EUR per day to each of the International Technical Officials, Technical Delegate and Classifiers shall be covered by the LOC.

2.1.3   The number of technical officials is outlined in the **Appendix 1**.

2.2   Championships Officials Services

The Championships Officials and WPPO staff may be accommodated in accommodation separate from NPC delegations.

Category	Type of Room
IF Delegate	Single room
Competition Director	Single room
Events Director	Single room
TD	Single room
Chief Classifier	Single room
Classifier	Single room
ITOs	Single room
Medical Delegate	Single room

2.3   Arrivals and Departures and Length of Stay

Category	Arrival	Departure
IF Delegate	5 days before the Teams Meeting	1 day after the end of the Competition

Competition Director	5 days before the Teams Meeting	1 day after the end of the Competition
Events Director	5 days before the Teams Meeting	1 day after the end of the Competition
TD	1 full / clear day before the Teams Meeting	1 day after the end of the Competition
Chief Classifier	1 day before start Classification	1 day after Day 1 of competition
Classifier	1 day before start Classification	1 day after Day 1 of competition
ITOs	1 full / clear day before the Teams Meeting	1 day after the end of the Competition
Medical Delegate	1 full / clear day before the Teams Meeting	1 day after the end of the Competition

2.4   Sport Specific Volunteers

Sport Specific Volunteers - Competition Venue									
Basic Group	**Role**	**Number per session**	**Sessions per day**	**Total**	**Days of Competition**	**Extra days**	**Total (Days)**	**Job description**	**Profile**
Administration Team	Administration Team Member	2	2	4	3	0	3	To aid the Services Manager Job. Print reports, general administrative actions, answer calls, deliver messages and organize the meeting rooms.	Good Communication, fluency in English, good to have second language (Spanish). Pro-active, attention to details. Well versed in the sport.
IF Services Team	IF Services Team Member	2	2	4	3	0	7	Support the WPPO. Organize the WPPO rooms and aid the IF Services Team Leader in issues evolving transport and accommodation.	Good Communication, fluency in English, good to have second language (Spanish, Arabic, Russian). Pro-active, attention to details. Well versed in the sport.

Team	Role							Function	Requirements
Athletes Services Team	Athlete Services Team Member	4	2	8	3	0	7	To aid in the drop off and pick up the athletes in the venue. Check in of the athletes in the venue. Supervise the lounge of the athletes. Answer to special solicitations of the athletes or the NPCs. Access control to athletes restricted areas.	Communication. Pro-activity. Attention. Abilities with people. Well versed in the sport.
Sport Info Team	Sport Info Team Member	2	2	4	3	0	7	Distribution of the results reports. Aid and solve any of the NPCs doubts. Must also deliver the initial protocols, informative, etc., to people that need them.	Communication. Organization. Fluency in English. High capacity of concentration and to be seated for a long time. Knowledge of the venue and of the city. Well versed in the sport. It's important that, per shift, that we have at least two persons that are capable of moving with relative speed, so they can deliver the reports in time.
FOP Team	FOP Team Member	8	2	16	3	0	7	Clean the FOP and Warm Up Room. To organize the FOP and Warm Up room (discs and benches), cleaning and taking out any objects left by the athletes. Access control to the warm up area and Field of play.	Exceptional Attention and Concentration skills. Extensive knowledge of the sport, it's rules and equipment. Physically strong, to develop this function in a quick and safe way. Organizational skills and attention to details.
Sport Equipment Team	Sport Equipment Team Member	3	2	6	7	0	7	Aid in the transport and installation of the equipment. Replace any damaged equipment in the training or competition venue. Keep towels and ice stocked at the field of play and athletes' areas.	Physically strong to help in the installation of the equipment. Organization and control skills. Has the access of the equipment room. Extensive knowledge of the sport, it's rules and equipment

Basic Group	Role	Number per session	Sessions per day	Total	Days of Training	Extra days	Total (Days)	Job description	Profile
Technical Officials Team	Technical Officials Team Member	3	2	6	3	0	7	Support the WPPO and the Technical Officials. Aid in the following TO's services: Lounge Room, transport, alimentation, hospitality and access. Reports directly to the Technical Officials Team Leader.	Good Communication, fluency in English, good to have second language. Pro-active, attention to details. Well versed in the sport.
Security Team	Access Control	9	2	18	3	0	10		

Sport Specific Volunteers - Training Venue									
Basic Group	Role	Number per session	Sessions per day	Total	Days of Training	Extra days	Total (Days)	Job description	Profile
Training Site Team	Training Site Team Member	4	2	8	7	0	7	Supervise the training area. Answer to the athletes and NPCs solicitations in this area. Organize the training venue and the benches. Clean and organize the discs and benches after they're used by the athletes.	

| Sport Specific Volunteers – Official Accommodation									
Basic Group	Role	Number per session	Sessions per day	Total	Days of Competition	Extra days	Total (Days)	Job description	Profile
Sport Information Team Member	Sport Info Team Member	2	2	4	7	0	7	Responsible for distributing reports results. resolving possible doubts NPCs Responsible for the training agenda and schedules transportation.	Communication, organization, speak English (essential) Ability to high concentration (preference for older people) Knowledge of Sport

3   Anti-Doping

The LOC must ensure that all anti-doping services are according to the IPC Anti-Doping Requirements for Local Organising Committees.
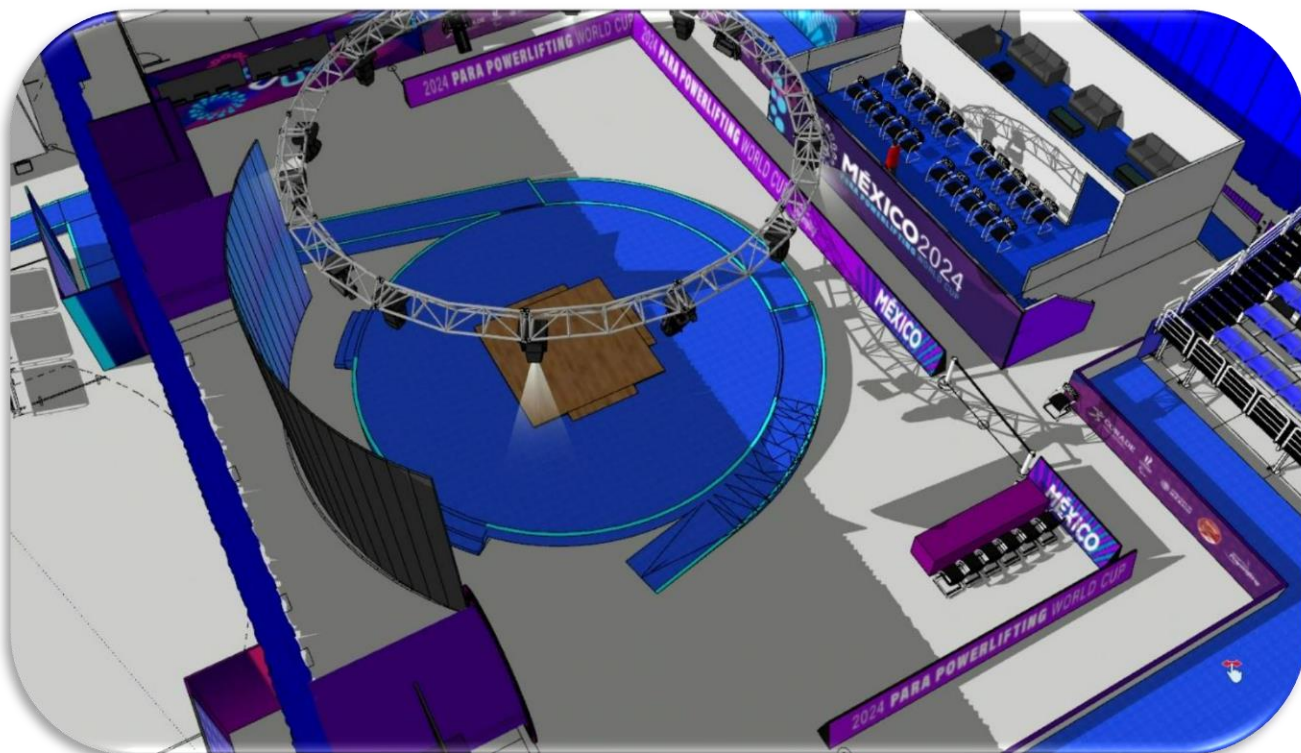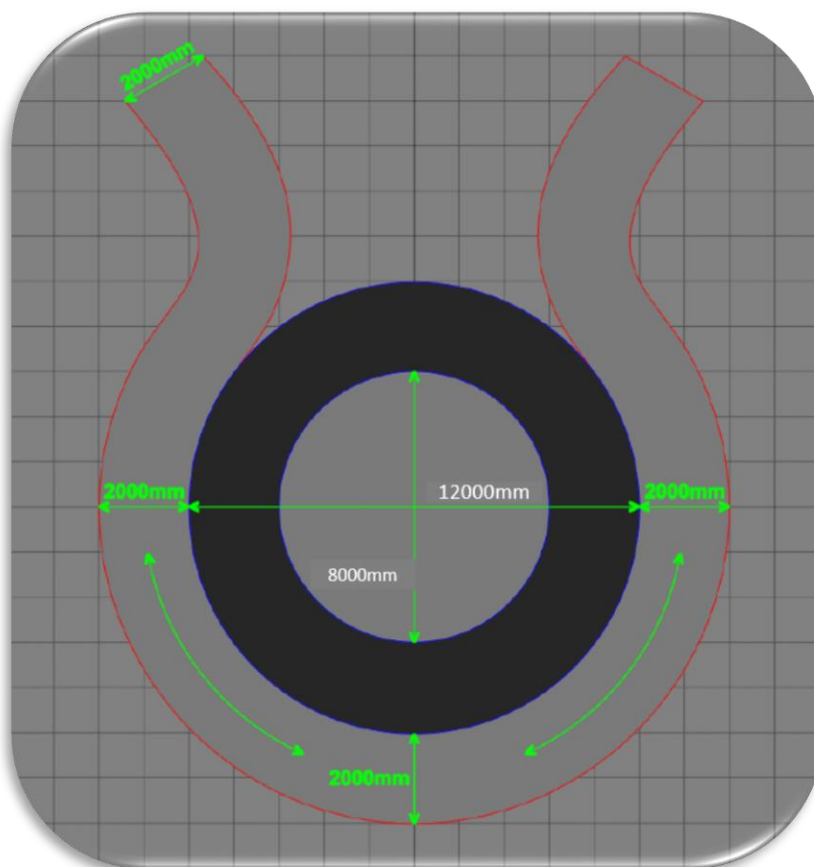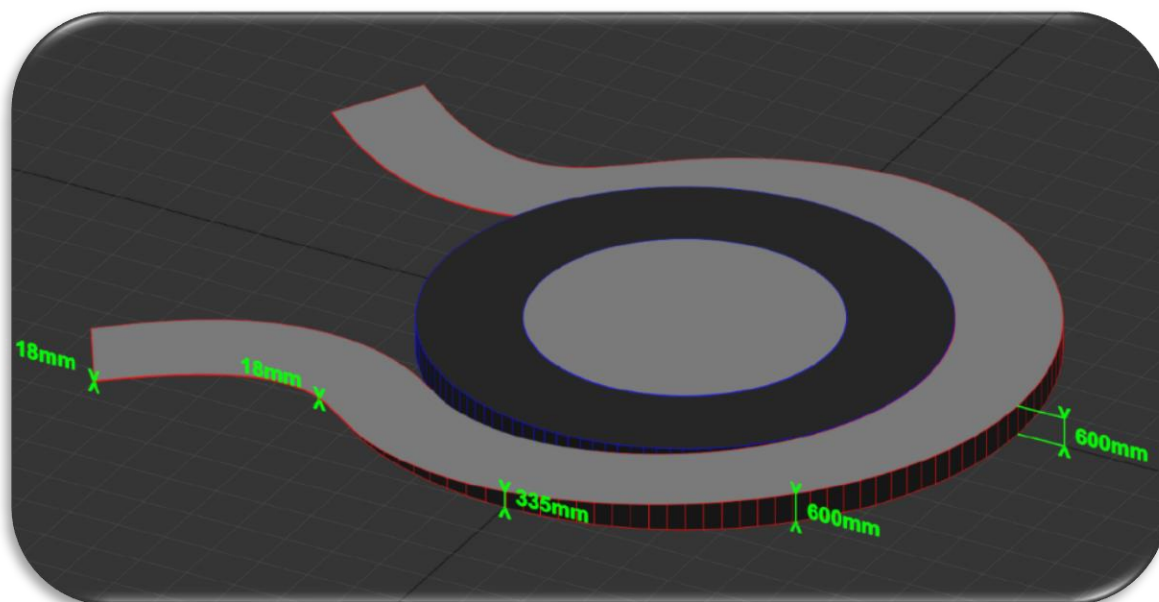
4 Appendices

4.1 Warm-up & Call area monitors

4.2   Sample Layout
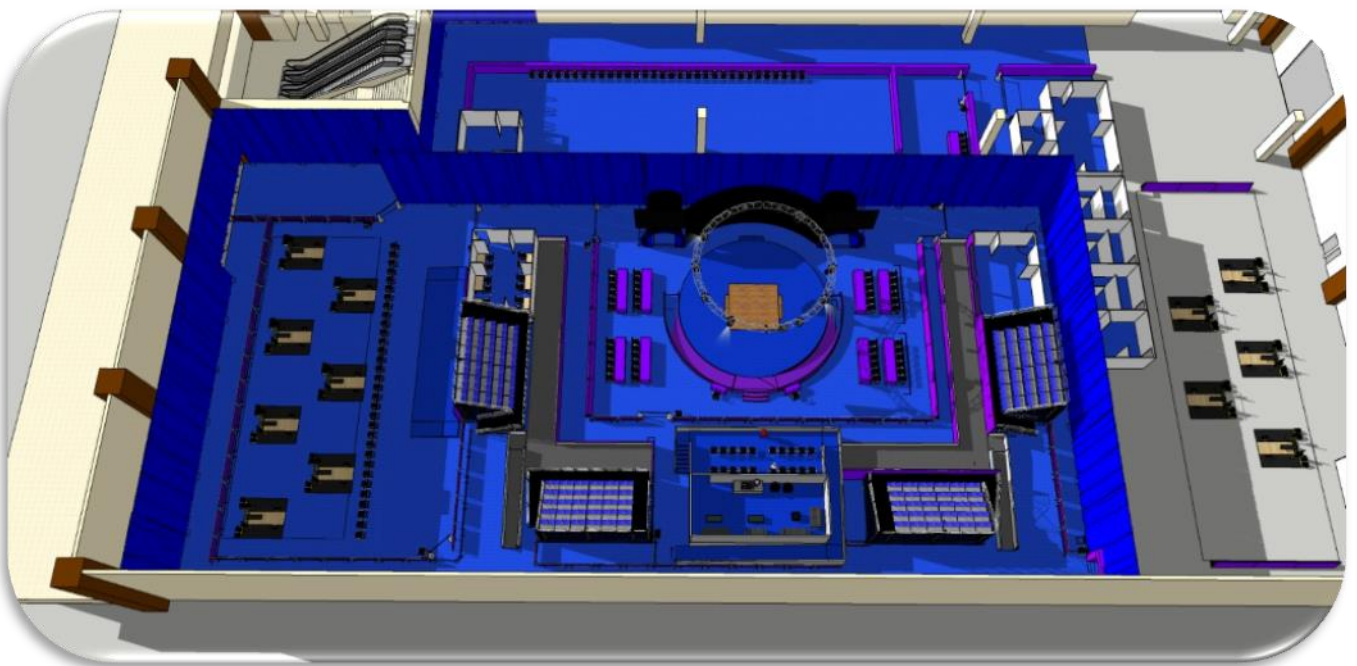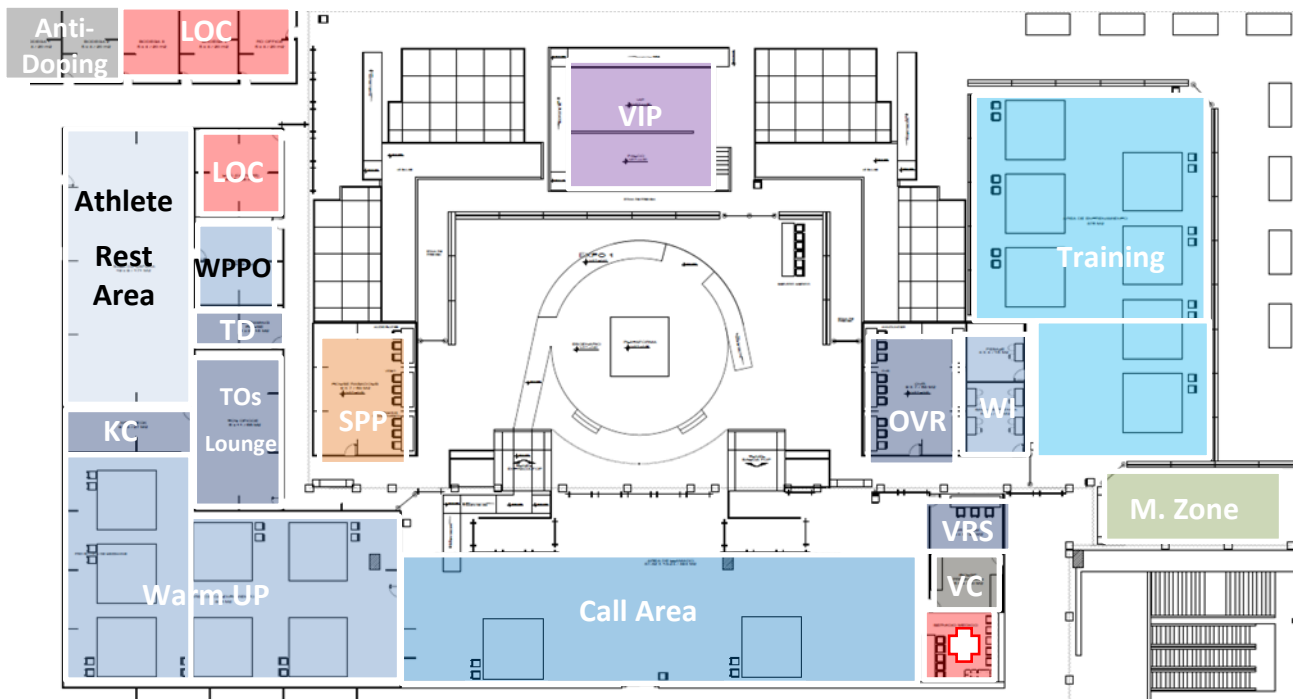
4.3   Round shape stage dimensions

4.4   Light system

4.4.1   Team Events Country flag lighting

4.4.2   LED Boards and lights

5   Version History

Version	Date	Comments
1.0	2022-02-21	Initial document creation.
1.1	2025-04-15	Update related to new competition cycle 2025-2028.