QRs/TDs OF ARTIFICIAL CLIMBING WALL - Revision

Technical Specification (4 Face Wall)

All parameters/ specifications mentioned in QRs will be checked by the Board of Officers by ascertaining/verifying following checks in the presence of Vender/Supplier/Manufacturer. In case of any discrepancies/problem, the vender/rep of firm will demonstrate the features to the Board of Officers of the force concerned. Further, if proper testing instrument for testing these parameters is not available with user, same will be arranged by the vender.

- i) <u>Physical Checks</u>: In this category, specification of the equipment will be checked physically as per QR.
- ii) **Functional Checks:** The vender will show all the features/ configuration of the equipment functioning on ground to the Board of Officers during trial.

Submission of certificates: - Specification which cannot be checked due to lack of testing facilities/expertise, self-certificate of OEM has to be provided by the vender/bidder during trial.

S/	Specification	Qualitative	Trial Directives
No	Specification	Requirement (QR)	Trial Directives
	FACE-1 (T	actical Climbing Wall)	
1.	Vertical	18.0 Meter	The Board will carry out physical check as well as
	height of wall	(60 Feet)	functional test of height of wall. In case of any
			discrepancy, the vender/rep of firm will demonstrate
			the features to the Board of Officers.
2.	Width of	6.0 Meter	The Board will carry out physical check as well as
	faces		functional test of width of wall. In case of any
			discrepancy, the vender/rep of firm will demonstrate
_	N. 1 0		the features to the Board of Officers.
3.	Number of	1 Face 6.0 Meter wide	The Board will carry out physical check as well as
	face of wall	with Lead Climbing	functional test of face of wall. In case of any
		Panels	discrepancy, the vender/rep of firm will demonstrate
4.	Total	C' 1 C	the features to the Board of Officers.
4.	climbing	Single face minimum	The Board will carry out physical check as well as
	surface	120 Sq. meter including side cover panels	functional test of climbing surface. In case of any
	surface	side cover paneis	discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.
5.	Usage	Multipurpose training	The Board will carry out physical check as well as
	osuge	(beginners, as well as	functional test of usage of mentioned parameters.
		intermediate/advance	Also the Board of Officer will check the OEM
		level climbers)	compliance Certificate submitted by the vender. In
		,	case of any discrepancy, the vender/rep of firm will
			demonstrate the features to the Board of Officers.
6.	Number of	At least 3 climbers	The Board will carry out physical check as well as
	climbers	simultaneously per face	functional test of climbing surface. Also the Board
			of Officer will check the OEM compliance
		41	Certificate submitted by the vender. In case of any
			discrepancy, the vender/rep of firm will demonstrate
7	Comment	0.100, 11	the features to the Board of Officers.
7.	Support	Self-Standing M.S.	The Board will carry out physical check as well as
	Structure	Structure as per IS:800	functional test of support structure. Also the Board
		lacksquare	of Officer will check the OEM compliance
	h		Certificate submitted by the vender for IS: 800 Certificate.
1			Certificate.

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8.	Surface	Climbing surface of wall EN:12572-2017 certified 3D and 2D polyester resin panel having SAND FINISH on outer face minimum 10mm thick on flanges and 6mm in the centre thickness with provision of fixing external movable holds @min.4 Nos./Sq. Mtr meant for outdoor use to take loading and reaction force as per Climbing Standard.	functional test of the provided specification and also check the EN certificate of the panels provided by the vender. Further, in case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
9.	Safety Top Rope Anchor	4 Nos. Fixed Top per face. Anchors security system EN:12572-2017 Certified	The Board will carry out physical check as well as functional test of mentioned parameters. Also the Board of Officer will check the OEM Certificate Submitted by the vender for EN:12572-2017 certification.	
10.	TUV/UIAA/ UL/ EN:12572- 2017 Certified Holds with certificatory	250 Nos. TUV/ UIAA/UL/ EN:12572-2017 Certified Holds.	The Board will carry out physical check as well as functional test of mentioned parameters. Also the Board of Officers will check the OEM compliance Certificate submitted by the vender for TUV/UIAA/UL/EN:12572 -2017 certification.	
11.	Bolts and Nuts	Hot dip galvanized or Zinc plated TUV/UIAA/UL/ IS code certified.	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS code certification provided by the vender for material used in Bolts & Nuts.	
12.	Lead protection/ anchors loading	Individual Protection Point (IPP) to take loading as per EN 12572-2017.	The Board will carry out physical check as well as functional test of mentioned parameters. Also the Board of Officer will check the OEM Certificate submitted by the vender for EN: 12572-2017 certification.	
13.	Foundation	2.0 Meter depth RCC as per IS 456:2000. May vary as per soil condition/site condition.	The Board of Officer will check the OEM Certificate submitted by the vender for RCC construction and IS 456:2000 Certificate for certifying prescribed construction norms.	
1.	FACE-2 (IFSC S Vertical height of wall face wise specifications	tandard Speed Climbing Wall) 15.7 meter for Speed Wall Panels and remaining 2.3 Meter part of structure should be covered with 10 mm thick FRP Panels.	The Board will carry out physical check as well as functional test of height of wall. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
2.	Width of faces	6 meters	The Board will carry out physical check as well as functional test of width of wall. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
3.	Number of face of wall	1 Face 6.0 meter wide	The Board will carry out physical check as well as functional test of face of wall. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
4.	Total Climbing surface	93.0 Sq. meter	The Board will carry out physical check as well as functional test of climbing surface. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
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5.	Usage	Multipurpose training (beginners,	The Board will carry out physical check as well as
		as well as intermediate/ advance	functional test of usage of mentioned parameters.
		level climbers)	Also the Board of Officer will check the OEM
			compliance Certificate submitted by the vender. In
	2	Δ.	case of any discrepancy, the vender/rep of firm will
		8	demonstrate the features to the Board of Officers.
6.	Number of	2 Climbers simultaneously.	The Board will carry out physical check as well as
(SCOOL)	climbers		functional test of climbing surface. Also the Board
	100000000000000000000000000000000000000		of Officer will check the OEM compliance
			Certificate submitted by the vender. In case of any
		_	discrepancy, the vender/rep of firm will
16	5		demonstrate the features to the Board of Officers.
7.	Cupport	Calf Standing M.S. Standing as age	
1.	Support	Self-Standing M.S. Structure as per	The Board will carry out physical check as well as
	Structure	IS:800	functional test of support structure. Also the Board
			of Officers will check the OEM compliance
	12	<u> </u>	Certificate submitted by the vender for IS: 800
			certificate.
8.	Surface	Climbing surface of wall EN:	The Board will carry out physical check as well as
	×	12572-2017 certified 2D FRP (fiber	functional test of the provided specification and
		reinforced plastic) panels with top	also check the EN: 12572-2017 certification
		and bottom layer of chopped and	provided by the vender. Further, in case of any
		woven roving fiber glass and resin	discrepancy, the vender/rep of firm will
		and a polyvinyl chloride core and	demonstrate the features to the Board of Officers.
			,
		The second secon	3
		thickness. Panels shall have	
	2	provision of insert holes @	i)
		minimum 110 no's per panels for	
		fixing holds The panels should be	2
	180	able to withstand climbers weight,	
		weather proof for outdoor use and	II II
		meet norms as per EN12572:2017	
		STANDARDS.	
9.	Safety Top	2 Nos. Fixed Top Anchors security	The Board will come out physical sheet as Well as
ر.	Rope Anchor	system EN: 12572-2017 Certified	The Board will carry out physical check as Well as
	Rope Alleliol	system EN. 12372-2017 Certified	functional test of mentioned parameters. Also the
			Board of Officer will check the OEM Certificate
			submitted by the vender for EN:12572-2017
10	0 111 11	TEGG	certification.
10.	Speed Holds	IFSC certified speed Climbing	The Board will carry out physical check as well as
		Holds. 40 Nos. Hand Holds	functional test of mentioned parameters. Also the
		22 Nos. Foot Holds TUV/ UIAA/	Board of Officer will check the OEM compliance
		UL / EN: 12572-2017 Certified	Certificate submitted by the vender for
		Holds.	TUV/UIAA/UL/ EN: 12572-2017 certification.
			· · · · · · · · · · · · · · · · · ·
11.	Bolts and Nuts		
11.	Bolts and Nuts	Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified	The Board will carry out physical check as well as
11.	Bolts and Nuts	Hot dip galvanized or Zinc plated .	The Board will carry out physical check as well as functional test of mentioned specification. Also
11.	Bolts and Nuts	Hot dip galvanized or Zinc plated .	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by
		Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts.
11.	Lead	Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified Individual Protection Point (IPP) to	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts. The Board will carry out physical check as well as
	Lead protection/	Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts. The Board will carry out physical check as well as functional test of mentioned parameter. Also the
	Lead protection/ anchors	Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified Individual Protection Point (IPP) to	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts. The Board will carry out physical check as well as functional test of mentioned parameter. Also the Board of Officer will check the OEM Certificate
	Lead protection/	Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified Individual Protection Point (IPP) to	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts. The Board will carry out physical check as well as functional test of mentioned parameter. Also the Board of Officer will check the OEM Certificate submitted by the vender for EN:12572-2017
12	Lead protection/ anchors loading	Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified Individual Protection Point (IPP) to take loading as per EN 12572-2017	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts. The Board will carry out physical check as well as functional test of mentioned parameter. Also the Board of Officer will check the OEM Certificate submitted by the vender for EN:12572-2017 certification.
12	Lead protection/ anchors	Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified Individual Protection Point (IPP) to take loading as per EN 12572-2017 2.0 Meter depth RCC as per IS	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts. The Board will carry out physical check as well as functional test of mentioned parameter. Also the Board of Officer will check the OEM Certificate submitted by the vender for EN:12572-2017 certification. The Board of Officer will check the OEM
	Lead protection/ anchors loading	Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified Individual Protection Point (IPP) to take loading as per EN 12572-2017 2.0 Meter depth RCC as per IS 456 :2000. May vary as per soil	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts. The Board will carry out physical check as well as functional test of mentioned parameter. Also the Board of Officer will check the OEM Certificate submitted by the vender for EN:12572-2017 certification.
12	Lead protection/ anchors loading	Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified Individual Protection Point (IPP) to take loading as per EN 12572-2017 2.0 Meter depth RCC as per IS	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts. The Board will carry out physical check as well as functional test of mentioned parameter. Also the Board of Officer will check the OEM Certificate submitted by the vender for EN:12572-2017 certification. The Board of Officer will check the OEM
12	Lead protection/ anchors loading	Hot dip galvanized or Zinc plated . TUV/UIAA/UL/IS Code Certified Individual Protection Point (IPP) to take loading as per EN 12572-2017 2.0 Meter depth RCC as per IS 456 :2000. May vary as per soil	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts. The Board will carry out physical check as well as functional test of mentioned parameter. Also the Board of Officer will check the OEM Certificate submitted by the vender for EN:12572-2017 certification. The Board of Officer will check the OEM Certificate submitted by the vender for RCC

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	FACE-3 (Rappe	elling Climbing Wall)		
1.	Vertical height of wall face wise specifications	18 Meter (60 feet)	The Board will carry out physical check as well as functional test of height of wall. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
2.	Width of faces	3 meters	The Board will carry out physical check as well as functional test of width of wall. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
3.	Number of face of wall	1 Face 3.0 meter wide	The Board will carry out physical check as well as functional test of face of wall. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
4.	Total Climbing surface	Minimum 60.0 Sq. meter including side cover Panels	The Board will carry out physical check as well as functional test of climbing surface. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
5.	Usage	Multipurpose training (beginners, as well as intermediate/advance level climbers).	The Board will carry out physical check as well as functional test of usage of mentioned parameters. Also the Board of Officer will check the OEM compliance Certificate submitted by the vender. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
6.	Number of climbers	1 Climber.	The Board will carry out physical check as well as functional test of climbing surface. Also the Board of Officer will check the OEM compliance Certificate submitted by the vender. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
7.	Support Structure	Self-Standing M.S. Structure as per IS:800	The Board will carry out physical check as well as functional test of support structure. Also the Board of Officers will check the OEM compliance Certificate submitted by the vender for IS: 800 certificate.	
8.	Surface	Climbing surface of wall EN:12572-2017 certified 3D and 2D polyester resin panel having SAND FINISH on outer face minimum 10mm thick on flanges and 6mm in the centre thickness with provision of fixing external movable holds @min.4 Nos,./Sq.Mtr meant for outdoor use to take loading and reaction force as per Climbing Standard.	The Board will carry out physical check as well as functional test of the provided specification and also check the EN: 12572-2017 certification provided by the vender. Further, in case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	

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9.	Safety Top Rope Anchor	security system EN: 12572-2017 Certified	The Board will carry out physical check as Well as functional test of mentioned parameters. Also the Board of Officer will check the OEM Certificate submitted by the vender for EN:12572-2017 certification.
10.	Bolts and Nuts	Hot dip galvanized or Zinc plated. TUV/UIAA/UL/ IS Code Certified	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts.
11.	Lead protection/ anchors loading FACE-4 (Lead	Individual Protection Point (IPP) to take loading as per EN 12572-2017 Climbing Wall)	
		T 1/2/2/2	T
1.	Vertical height of wall	18 Meter (60 feet)	The Board will carry out physical check as well as functional test of height of wall. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.
2.	Width of faces	3.0 Meter	The Board will carry out physical check as well as functional test of width of wall. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.
3.	Number of face of wall	1 Face 3.0 Meter wide with Lead Climbing Panels	The Board will carry out physical check as well as functional test of face of wall. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.
4.	Total climbing surface	Minimum 60.0 Sq. meter including side cover Panels	The Board will carry out physical check as well as functional test of climbing surface. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.
5.	Usage	Multipurpose training (beginners, as well as intermediate/advance level climbers)	The Board will carry out physical check as well as functional test of usage of mentioned parameters. Also the Board of Officer will check the OEM compliance Certificate submitted by the vender. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.
6.	Number of climbers Support	At 1 climber simultaneously per face	The Board will carry out physical check as well as functional test of climbing surface. Also the Board of Officer will check the OEM compliance Certificate submitted by the vender. In case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.
7.	Structure	Self-Standing M.S. Structure as per IS:800	The Board will carry out physical check as well as functional test of support structure. Also the Board of Officer will check the OEM compliance Certificate submitted by the vender for IS: 800 Certificate.

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8.	Surface	Climbing surface of wall EN:12572-2017 certified 2D polyester resin panel having SAND FINISH on outer face minimum 10mm thick on flanges and 6mm in the centre thickness with provision of fixing external movable holds @ min.4 Nos,./Sq.Mtr meant for outdoor use to take loading and reaction force as per Climbing Standard.	The Board will carry out physical check as well as functional test of the provided specification and also check the EN certificate of the panels provided by the vender. Further, in case of any discrepancy, the vender/rep of firm will demonstrate the features to the Board of Officers.	
9.	Safety Top Rope Anchor	2 Nos. Fixed Top per face. Anchors security system EN:12572-2017 Certified	The Board will carry out physical check as well as functional test of mentioned parameters. Also the Board of Officer will check the OEM Certificate Submitted by the vender for EN:12752-2017 certification.	
10.	TUV/UIAA/UL/ EN:12572-2017 Certified Holds with certificatory	125 No.s. TUV/ UIAA/UL/ EN:12572-2017 Certified Holds.	The Board will carry out physical check as well as functional test of mentioned parameters. Also the Board of Officers will check the OEM compliance Certificate submitted by the vender for TUV/UIAA/UL/ EN:12572-2017 certification.	
11.	Bolts and Nuts	Hot dip galvanized or Zinc plated. TUV/UIAA/UL/ IS Code Certified	The Board will carry out physical check as well as functional test of mentioned specification. Also check the OEM/ IS Code certification provided by the vender for material used in Bolts & Nuts.	
12.	Lead protection/ anchors loading	Individual Protection Point (IPP) to take loading as per EN 12572-2017.	The Board will carry out physical check as well as functional test of mentioned parameters. Also the Board of Officer will check the OEM Certificate submitted by the vender for EN: 12572-2017 certification.	
13	Foundation	2.0 Meter depth RCC as per IS 456:2000. May vary as per soil condition /site condition.	The Board of Officer will check the OEM Certificate submitted by the vender for RCC construction and IS 456:2000 Certificate for certifying prescribed construction norms.	

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		Prospective bidder should provide and fix:			
			(a) SS Belay anchor point – 8 nos.		
			(b) Climbing holds (Imported) – 250 nos. (with		
			nut-bolt)		
	*		(c) Speed climbing holds (20 Hand Holds + 11		
			Feet Holds) – 2 set		
			(d) Dynamic climbing rope of 10.1 mm - 400		
			meter.		
	0		(e) Sports climbing seat harness – 15 nos.		
	- 45		(f) D-shaped screw carabineer – 25 nos.		
			(g) Steel Quick Draw – 30 Nos.		
			(h) Belay device – 10 nos.		
			(i) GRIGRI – 4 nos.		
			(j) Mittens – 20 Pair		
			(k) Allen Keys – 5 Nos.		
2			(l) Auto belay system -01 pair		
	=		(m) Timing Device -01 pair		
			Note: The above equipment/accessories must be		
			CE, EN/UIAA/ UL/ IFSC certified.		
			Any additional tools/ accessories required for the		
			project may be quoted by the vendor.		
15	Design &	Walls shall withstand the effects	The vender / firm will submit Third paty i.e.		
	performance	of gravity loads, wind loads	NIT/IIT vetted Steel structure and foundation		
	Criteria:-	(130 km/hr wind load) and live	drawing certificate.		
		loads determined according to ASCE/SEI-7. (NIT/IIT Vetted)			
		Walls shall withstand the effects	The vender / firm will submit Third paty i.e.		
		of earthquake motions as per	NIT/IIT vetted Steel structure and foundation		
		ASCE/SEI-7. (NIT/ IIT vetted)	drawing certificate.		
		Walls to allow for thermal	The vender/firm will submit certificate from OEM		
		movements from ambient and	in this regard.		
		surface temperature changes for			
		temperature change of 40 deg. C			
16	Training &	to 100 deg. C, material surfaces. Manufacturers shall have a	Past performance/avacrience		
	risk	Manufacturers shall have a minimum of 03 years of	Past performance/experience certificate to be produced before the board of officers in conformity		
	management	experience working in the	of experience.		
		design and manufacturing of			
		climbing wall.			
		The manufacturer shall provide	The vender/ firm will produce manual as required.		
		risk management procedures in			
		the form of a procedures manual designed specifically for the			
		facility.	· · · · · · · · · · · · · · · · · · ·		
	47	The manufacturer shall provide	The vender/firm will arrange training of 20 Master		
X		onsite training for the Owner's	trainers for 2 weeks. 8 Hours per day.		
		personnel on risk management			
		operations and maintenance.	R		
	(4)	All training shall be managed	The vender/firm will submit CWA/ IMF		
		by personnel holding	approved certificate before the Board of Officers		
		certifications from Climbing	for checking.		
100		Wall association (CWA)/ IMF			

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Platform for slithering and rappelling shall be as per organizational requirement with provision of shed kept optional.

Photographs attached are symbolic and may vary with the customization/requirements of individual organization.

Landing Area around the climbing structure

S/No	Items	Dimensions
1	Height of perimeter wall	2 fit 4 inch
2	Length	21.8 Mtr
3	Breadth	21.8 Mtr

Gymnastic Landing Mats optional for additional safety to avoid injuries.

Note:-

Different configurations have been worked out keeping in view the general requirements. However, the artificial climbing wall may be customized i.e. different height, width, type and number of faces, depending on following:-

- 1) Organizational specific combat requirements.
- 2) Institutions training capacity and requirements.
- 3) Infrastructure for training to participate in Wall climbing competitions.

(V.K.Singh)

(Sreenivas Gujjari)

Comdt. Works Dte., CRPF

DIG. CRPF Member

Member

(Major Rajesh Rathore)

NSG

Member

(Major Naveen Chauhan)

Assam Rifles. Member

Amit J. DC)

CISF

Member

(R.S. Bankoti, DC)

BSF

Member

(Bhom Pal, AC)

ITBP

Member

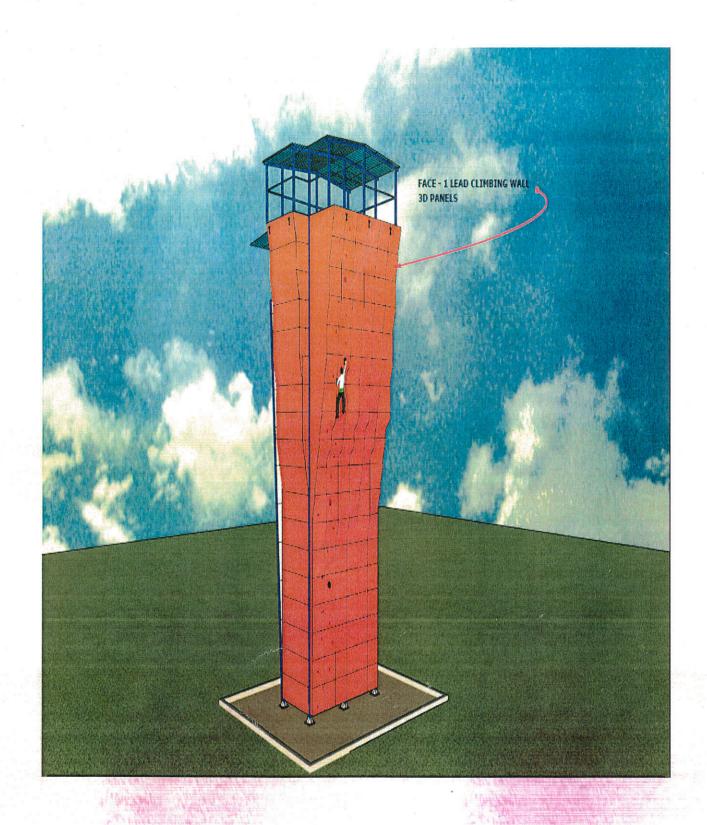
(Ankit Shukla, AC)

Prov. Dte. CRPF.

Co -opted Member

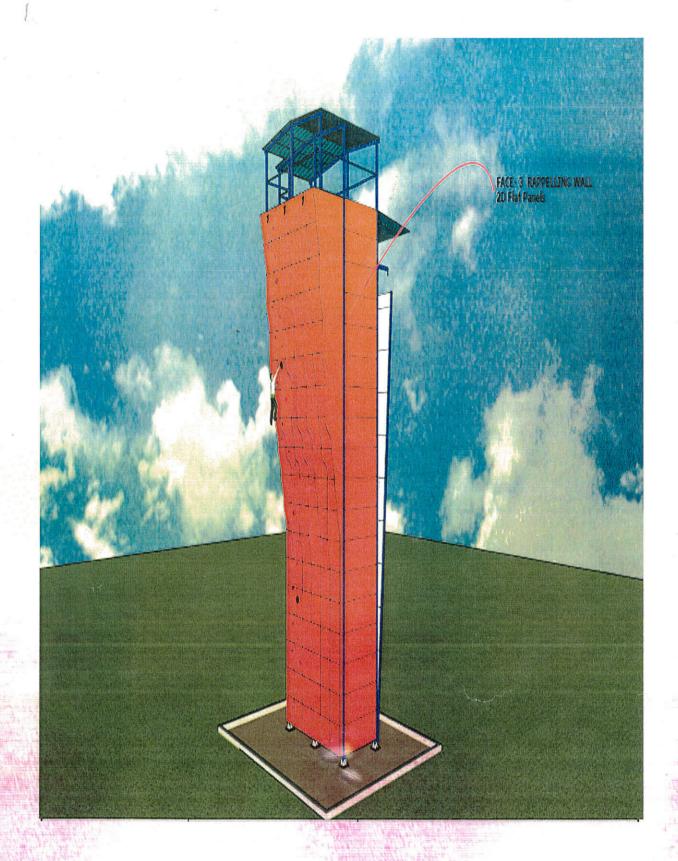
(Deepak Kumar) ADG(Trg), Dte, CRPF (Chairman/P.O





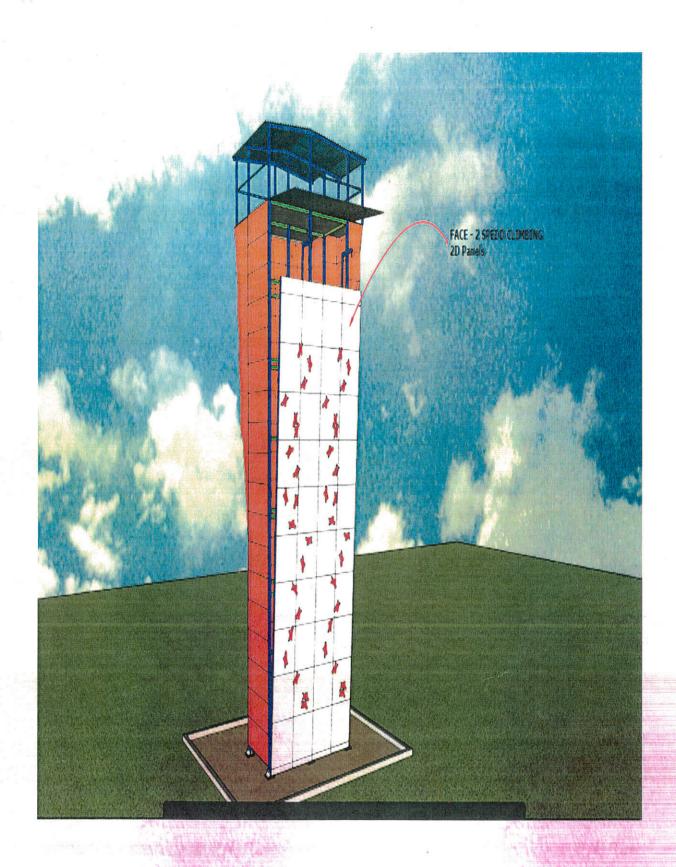
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PROJECT:- CRPF MULTI ACTIVITIES AND CLIMBING WALL





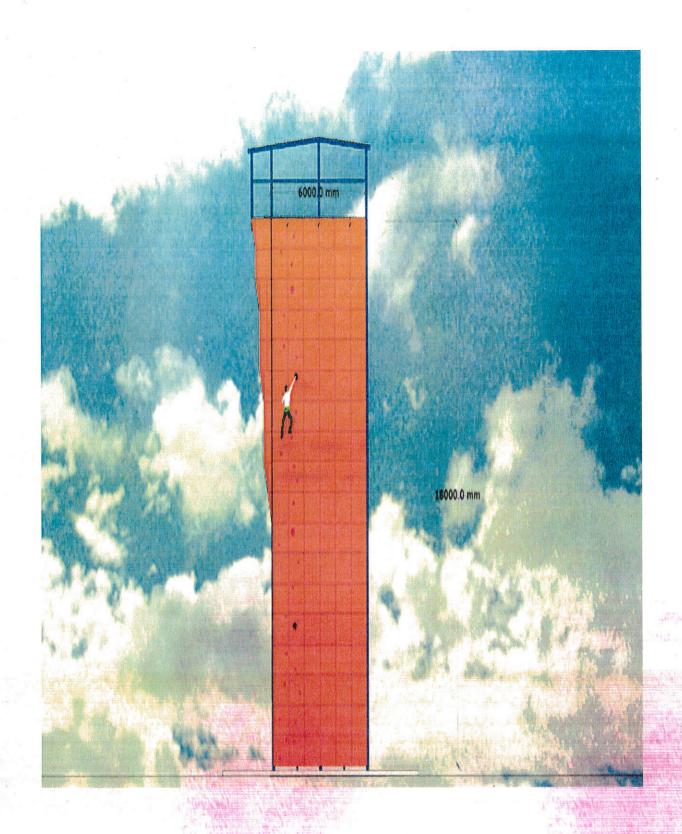
PROJECT:- CRPF MULTI ACTIVITIES AND CLIMBING WALL





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