

CORNER SHOT

264

No. IV-21011/35/2009-Prov-I
Government of India
Ministry of Home Affairs

26, Man Singh Road, Jaisalmer House,
New Delhi, 27.8.2009

To

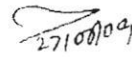
The DGs: Assam Rifles/BSF/CISF/CRPF/ITBP/NSG/SSB/BPR&D

Subject: - QRs/Technical Specifications for the security related equipments -regarding

The QRs/Technical Specifications for the following security related equipments have been accepted and approved by the Competent Authority in MHA.

- (i) Corner Shot - Annexure-A
- (ii) Hostage Rescue for Bullet Proof Cover - Annexure-B
- (iii) General Purpose Machine Gun (GPMG)-Annexure-C
- (iv) Stun Grenade for all purpose - Annexure- D
- (v) Advance Weapon Simulator - Annexure-F.

2. Henceforth, all the CPMFs should procure the above items required by them strictly as per the laid down Technical Specifications/QRs.


(R.S.Sharma)
Director (Prov)

Copy to:-

✓ DD(Procurement),MHA

Copy for information to:-

PS to JS(PM),MHA

Annexure - A

QRs/SPECIFICATION FOR CORNER SHOT

General

Ser No	Equipment	Description
1	Camera	Should be detachable, quick connecting colour video camera.
2	Monitor	Colour video monitor with visible fixed crosshair. The rear side of the monitor should be fitted with a special ribbed panel to cool and absorb monitor heat.
3	Video Out Socket	Should have a Video-out socket + cap cover
4	Energy source	Should contain a quick change battery housing.
5	Light source	Tactical light source and dispersing filter. The light dispersing filter for preventing camera blinding when used at short range.
6	Fore grip	Traversing handle and fore grip should provide extra grip and easy operation.
7	Pistol grip	Ergonomic pistol grip.
8	Monitor hood	Detachable monitor hood and shading sleeve to protect against direct sunlight and improve screen picture sharpness.
9	Weapon housing	Adapted to different type of weapons (To be specified by the users).
10	Stock	Side folding stock
11	Rail	Upper universal accessory rail.
12	Trigger	Trigger system with safety mechanism.
13	Carry Case	Sturdy, water proof, protection against damage during transport in rough conditions.
14	Slings	Suitable for carriage of Corner Shot Device
15	Accuracy	Accuracy and effective range of the weapon mounted on corner shot platform should not be affected.
16	Traverse	60° each side for surveillance and engaging target.

Technical


Ser No	Specification	Description
1	Weight	Less than 4.5 Kg. (Excluding weapon)
2	Length	Less than 915 mm (Excluding weapon)
3	Monitor	Not less than display size 2.5"
4	Battery Housing	Quick change battery housing.
5	Plastic Connector Board	Integrated PCB (Plastic Connector Board) connectors to improve the durability of the electric system and allow simple, efficient checks and maintenance.
6	Main Body	The body should be made of rugged material.
7	Environmental Conditions	Dust-tight, humidity 95% RH, temperature -30° C to +50° C, protected against rain.
8	Trigger pull	Weight - 2.1 Kg maximum.

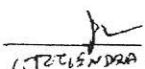
11/8 W/E 7/11/8/19 11/8/20 8/4 L D/S


9.	Battery	Rechargeable Battery for continuous operations of minimum 220 minutes.
10.	Battery Charger	Compatible battery charger operable at AC mains 220 V / DC 12 V
11.	User Manual	User's manual booklet and tools kit.


Optional Accessories

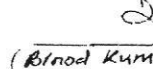
1. **Camera.** For useful operation in different kind of situations Interchangeable camera with various types of lenses with Low light & IR should be provided.
2. **Lasers Designators.** Visible and IR (Infra Red) laser designator with special zeroing mechanism
3. **Transmitter – Command Receiver Kit.** Video transmitter & receiver in various frequencies. Portable monitor kits with case.
4. **IR Filter.** IR filter for tactical light.
5. **Tactical Vest Detachable and Soft Carry Case.** Specially designed tactical vest with connector on back for matching Corner Shot Device and soft carry case to be supplied with each system.



 (Raj Rohit Patel)
 Sns

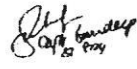

 (J. Srinivas Kumar)



 P. S. KARK
 Dy. C. I. O. (SSB)


 S. S. Narayan Yadav
 SC (VE)

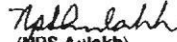

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 S. S. Narayan Yadav
 SC (VE)

Approved/Not Approved


 (NPS Aulakh)
 Director General, NSG

TRIAL DIRECTIVE FOR CORNER SHOT

Introduction

1. Corner Shot, enables the user to see, and fire, around corners. The Corner Gun looks like a boxy assault rifle. But in the center of the weapon can turn right or left, and the front part of the weapon can hold a Pistol, Revolver or any other weapon in this category. The front part also contains a video cam. The rear part of the weapon has a viewer for the Videocam and a trigger, which activates a trigger mechanism in front part that fires the Pistol. With the firing of 9 mm or larger bullets, the sighting system is pretty accurate at ranges under a hundred meters, which is the normal range of urban combat. The weapon can fire a Pistol fitted with a silencer. The Videocam can be replaced with Nightvision system and Laser sights.

2. Keeping in view, Trial Directives are being formulated to enable evaluation of functional and operational capabilities of weapon by the standing technical evaluation committee/BOO. The aim of Trial directive will be assess the performance of the Corner Shot against the various parameters mentioned in its QRs.

Trial requirements

3. Duration of Trial : Duration of trial will be determined by the number of weapons to be evaluated. All the weapons alongwith accessories, ammunition and related literature be produced for used trial should be made available one week prior to commencement of trial for pre-trials formalities.

4. Trial will be conducted in the field area as per the discretion of competent authority.

5. Number of Weapons : Two sample weapons should be provided by each vendor. Vendor to also produce the complete accessories alongwith each weapon.

6. Weapon & Ammunition : The type weapon and ammunition to be used to fire from Corner Shot are to be specified by the user force; which will be made available by indenter at the time of Trial as per the requirement of STEC.

7. Technical Literature : User hand book, design specification, illustrated spare part list, preservation instruction, (Complete equipment Schedule), CES and repair manual including maintenance tasks, procedure for assembly/stripping and safety precautions. These should be made available by the firm at the time of trial.

8. Tools, SMT, Gauges : One set of tools SMT and gauges should be made available by the firm at the time of trial.

9. Environmental Adaptability : OEM to submit a certificate indicating that weapon is tested to withstand temperature extremes prior to commencement of user trials.

10. The weapon should have been subjected to proof firing prior to positioning for user trials. A certificate stating that the weapons are safe to fire for trials will be rendered by the OEM prior to commencement of user trials.

11. The Presiding Officer of the STEC Board will earmark the trial equipment for its evaluation. The vendor reps be required to give a certificate that the equipment given to the evaluation committee is acceptable for their trial. The trial crew will be associated with the vendor reps during trials. The vendor will be thereafter be allowed to test the equipment under trail and then train in handling the equipment before the same is handed over to the Presiding Officer for trial.

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TRIAL METHODOLOGY / PROCEDURE TO BE ADOPTED BY THE STEC FOR TRIAL / EVALUATION OF CORNER SHOT

General

S/No.	Equipment	Description	Trial Directive / Procedure
1.	Camera	Should be detachable, quick connecting colour video	To be physically checked by the Board.
2.	Monitor	Colour video monitor with visible fixed crosshair. The rear side of the monitor should be fitted with a special ribbed panel to cool and absorb monitor heat.	(i) To be physically checked by the Board. (ii) Firms to submit certificate in this regard.
3.	Video Out Socket	Should have a Video-out socket + cap cover	To be physically checked by the Board.
4.	Energy source	Should contain quick change batter housing	To be physically checked by the Board.
5.	Light source	Tactical light source and dispersing filter. The light dispersing filter for preventing camera binding when used at short range.	To be physically checked by the Board.
6.	Fore grip	Traversing handle and fore grip should provide extra grip and easy operation.	To be physically checked by the Board.
7.	Piston grip	Ergonomic pistol grip.	To be physically checked by the Board.
8.	Monitor hood	Detachable monitor hood and shading sleeve to protect against direct sunlight and improve scree picture sharpness.	To be physically checked by the Board. Keeping in direct heat for a protracted period.
9.	Weapon housing	Adapted to different type of weapons (To be specified by the users).	Adaptability of Corner Shot with the type (s) of weapon as specified by the user to be physically checked by the Board.
10.	Stock	Side folding stock.	To be physically checked by the Board.
11.	Rail	Upper universal accessory rail.	To be physically checked by the Board.
12.	Trigger	Trigger system with safety mechanism.	To be physically checked by the Board.
13.	Carry case	Sturdy, water proof, protection against damage during transport in rough conditions.	(i) To be physically checked by the Board. (ii) Firms to submit certificate in this regard.
14.	Slings	Suitable for carriage of Corner Shot Device.	To be physically checked by the Board.
15.	Accuracy	Accuracy and effective range of the weapon mounted on corner shot platform should not be affected.	(i) To be physically checked by the Board. (ii) The Board to check the accuracy of effective range of weapon housed in the Corner Shot. The accuracy and effective range parameter of weapon mounted on Corner Shot should remain unchanged.
16.	Traverse	60° each side for surveillance and engaging target.	To be physically checked by the Board.

Technical

S/No.	Specification	Description	Trial Directive / Procedure
1.	Weight	Less than 4.5 Kg (Excluding weapon)	To be physically checked by the Board. The weight of the Corner Shot excluding weapons should be less than 4.5 Kg.
2.	Length	Less than 915 mm (Excluding weapon)	To be physically checked by the Board. The overall length of the Corner Shot

			excluding weapon should be less than 915 mm.
3.	Monitor	Not less than display size 2.5"	To be physically checked by the Board. The display size of the monitor should not be less than 2.5".
4.	Battery Housing	Quick change battery housing	To be physically checked by the Board.
5.	Plastic Connector Board	Integrated PCB (Plastic Connector Board) connectors to improve the durability of the electric system and allow simple, efficient checks and maintenance.	To be physically checked by the Board.
6.	Main Body	The body should be made of rugged material.	(i) To be physically checked by the Board. (ii) Firms to submit certificate in this regard.
7.	Environmental conditions	Dust-tight, humidity 95% RH, temperature - 30° C to + 50° C protected against rain.	(i) To be physically checked by the Board. (ii) Firms to submit certificate in this regard.
8.	Trigger pull	Weight 2.1 Kg maximum.	To be physically checked by the Board. The trigger pull weight should not be more than 2.1 Kg.
9.	Battery	Rechargeable Battery for continuous operations of minimum 220 minutes.	The Board to run the fully charged battery for minimum 220 minutes to ensure its continuous operation.
10.	Battery Charger	Compatible battery charger operatable at AC mains 220 V / DC 12 V	To be physically checked by the Board.
11.	User Manual	User's manual booklet and tools kit.	An undertaking in this regard is to be taken from the OEM.

Operational Accessories

1.	Camera	For useful operation in different kind of situations interchangeable camera with various types of lenses with low light & IR should be provided.	To be physically checked by the Board.
2.	Laser Designators	Visible and IR (Infra Red) laser designator with special zeroing mechanism.	To be physically checked by the Board.
3.	Transmitter – Command Receiver Kit	Video transmitter & receiver in various frequencies. Portable monitor kits with case.	To be physically checked by the Board.
4.	IR Filter	IR filter for tactical light.	To be physically checked by the Board.
5.	Tactical Vest Detachable and Soft Carry Case	Specially designed tactical vest with connector on back for matching Corner Shot Device and soft carry case to be supplied with each system.	To be physically checked by the Board.