

मुख्यालय राष्ट्रीय सुरक्षा गारद
गृह मंत्रालय (भारत सरकार)
सम्भरण शाखा (आयुद्ध अनुभाग)
मेहरम नगर, पालम, नई दिल्ली-37

संख्या-पी/604/25/389/ई0-145729/संभरण(ऑर्डनेंस)/मु0रा0सु0गा0/ 127

दि0 11 फरवरी 2026

विषय: फोर व्हील्ड डे ऐंड नाइट सरवेलेन्स रोबोट (FOUR WHEELED DAY & NIGHT SURVEILLANCE ROBOT) के परिशोधित गुणात्मक आवश्यकता (क्यू.आर.) और परीक्षण निर्देशों (टी.डी.) का प्रेषण।

तकनीकी विशेषज्ञों के उप समूह द्वारा किए गये सूत्रीकरण एवम महानिदेशक, राष्ट्रीय सुरक्षा गारद द्वारा अनुमोदित फोर व्हील्ड डे ऐंड नाइट सरवेलेन्स रोबोट (FOUR WHEELED DAY & NIGHT SURVEILLANCE ROBOT) के परिशोधित गुणात्मक आवश्यकता (क्यू.आर.) और परीक्षण निर्देशों (टी.डी.) को अग्रिम कार्यवाही हेतु प्रेषित किया जाता है।

संलग्न- उपरोक्तानुसार

(राजेश रंजन)

ग्रुप कमांडर (क्रय)

फोन- 011-25663100

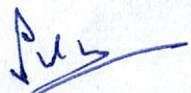
ईमेल- gcproc@nsg.gov.in

वितरण :

1.	संयुक्त सचिव (पुलिस आधुनिकीकरण), गृह मंत्रालय, जेसलमेर हाउस, नई दिल्ली। ई0मेल: us-prov2@mha.gov.in	सूचनार्थ हेतु।
2.	वरिष्ठ तकनीकी निदेशक, एन0आई0सी0, गृह मंत्रालय, नार्थ ब्लॉक, नई दिल्ली। ई0मेल: soit@nic.in mpsugandhi@nic.in	आपसे अनुरोध है कि उपरोक्त क्यू0आर0/टी0डी0 को गृह मंत्रालय के वेबसाइट पर पुलिस आधुनिकीकरण डिविजन- क्यू0आर0- कैटगरी - Machine & Equipment with Surveillance Items में ऑपलोड करने का कष्ट करें तथा उक्त कैटगरी में क्रम संख्या- 127 और Misc Item कैटगरी के क्रम संख्या- 1 पर दर्शाये जा रहे पुराना क्यू0आर0/टी0डी0 दिनांक 23 जनवरी 2017 को वेबसाइट से हटाने का कष्ट करें।
3.	महानिरीक्षक/निदेशक (आर0एण्ड डी) ,बी0पी0आर0एण्ड डी0, महिपालपुर, नई दिल्ली। ई0मेल- igmod@bprd.nic.in/dd-mod@bprd.nic.in	
4.	अतिरिक्त महानिदेशक, पी0पी0 एण्ड टी0, रूम संख्या- 37, एच ब्लॉक, डी0जी0क्यू0ए0, भारत सरकार, रक्षा मंत्रालय, रक्षा उत्पादन विभाग, गुणवत्ता आश्वासन निदेशालय, नई दिल्ली। ई0मेल: saarmt-dgqa@gov.in	
5.	उप महानिरीक्षक (सम्भरण), के0रि0पु0बल, केन्द्रीय कार्यालय परिसर, लोदी रोड, नई दिल्ली। ई0मेल: digprov@crpf.gov.in/ dcord@crpf.gov.in	
6.	उप महानिरीक्षक (सम्भरण), सी0सु0बल, केन्द्रीय कार्यालय परिसर, लोदी रोड, नई दिल्ली। ई0मेल : digprovfhq@bsf.gov.in / comdtord@bsf.nic.in	
7.	उप महानिरीक्षक (सम्भरण), के0ओ0सु0बल, केन्द्रीय कार्यालय परिसर, लोदी रोड, नई दिल्ली। ई0मेल : digprov@cisf.gov.in, aigtech@cisf.gov.in	
8.	उप महानिरीक्षक (सम्भरण), भा0ति0सी0पु0, केन्द्रीय कार्यालय परिसर, लोदी रोड, नई दिल्ली। ई0मेल : digprov@itbp.gov.in/digcommn@itbp.gov.in	
9.	उप महानिरीक्षक (सम्भरण), एस0एस0बी0, आर0के0पुरम0, नई दिल्ली। ई0मेल: digprov@ssbdel.in/ cr.ssbdel@nic.in	
10.	उप महानिरीक्षक (सम्भरण), असम राईफल, (एल0ओ0ए0आर0 द्वारा) ई0मेल : loar-mha@nic.in	
11.	ग्रुप कमांडर, ऑप्स (डब्लू0ई0), मु0रा0सु0 गारद - सूचनार्थ एवं आवश्यक कार्यवाही हेतु।	
12.	मुख्यालय, सी0टी0एफ0 /बी0डी0 यूनिट, रा0सु0 गारद - सूचनार्थ एवं आवश्यक कार्यवाही हेतु।	
13.	स्वा0कमांडर (सम्भरण) जेम/ स्वा0कमांडर (क्रय) मु0 रा0सु0 गारद - सूचनार्थ एवं आवश्यक कार्यवाही हेतु।	
14.	हिन्दी सेल, मु0 रा0सु0गा0 को इस आशय के साथ है कि उक्त क्यू0आर0/टी0डी0 का हिन्दी रूपान्तरण कर 03 दिन के अन्दर प्रस्तुत करने हेतु।	

REVISED QRs/TDs OF FOUR WHEELED DAY AND NIGHT SURVEILLANCE ROBOT

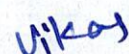
<u>Ser No</u>	<u>Qualitative Requirements</u>		<u>Trial Methodology</u>
1.	(a)	Four Wheeled Day and Night Svl Robot should be a mini robot that enables easy maneuverability through a remote control and instantaneous video and audio reconnaissance within indoor or outdoor environments.	To be physically checked by BOO
	(b)	<u>Wireless Link with Control Unit</u> The Robot should be able to receive Command and Control instructions from Control Unit and should be able to transmit audio and video svl data to control unit through a Wireless NLOS Link at a range of 80 mtr radius or better without any mesh topology in Non Line of Sight Environment and 250 mtr radius or better without any mesh topology in Line of Sight Environment.	To be physically checked by BOO
2.	(a)	Weight of four wheeled robot (Excluding battery(s)) - 4.5 Kg or lesser	To be physically checked by BOO
	(b)	The eqpt shall withstand a drop from a height of 2.5meters without any damage to internal components or loss of structural integrity. The functionality of the eqpt should remain intact after the drop.	The parameter to be physically checked by BOO.
	(c)	<u>Day and Night Camera- For video Surveillance</u>	
	(i)	Day and night integrated cameras (with IR illumination (nonvisible)).	To be physically checked by BOO


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 Piyush Srivastava,
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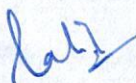

 Anil Rajput, DC/BSF


 Vikas Godara, AR

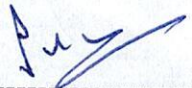

 Dinesh Chandra Pandey
 AC/ITBP


 Harbhan Singh
 ASI/SSB


 Sita Ram, SI/SAG
 NSG


 Maj Lalit Kumar
 TC(WE) HQ NSG

<u>Ser No</u>	<u>Qualitative Requirements</u>	<u>Trial Methodology</u>
	(ii) The equipment should have an array of surveillance cameras in order to obtain Front, rear and lateral view simultaneously. The cameras should not get detached during drop test. <u>Resolution</u> <u>Day Camera</u>- 1280x720p or better (Front and rear camera) For day vision minimum range should be 100m or more for detection and 30m or more for identification. <u>Night Camera</u>- 640x480p or better (Front and rear camera) For night vision minimum range should be 30m or more for detection and 10m or more for recognition. <u>Lateral Cameras</u> Detection and identification capabilities from lateral cameras should be minimum 5m during day time. <u>Digital Zoom</u>- 4x or better (iii) Front and back cameras should offer vertical and horizontal field of view of ± 60 Degrees or better. (d) <u>IR Illumination</u> IR illumination should be provided for front and rear cameras. (e) <u>Microphone – For Audio Surveillance</u> Super sensitive omni-directional microphone with microphone sensitivity of 75 db or better from a distance of 2m.	The parameters to be physically checked by BOO. The resolution should be displayed on the screen. OEM to provide International/ National/ NABL accredited lab certificate. The parameter to be physically checked by BOO. To be physically checked by BOO OEM certificate to be provided. The parameter to be physically checked by BOO.


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 BINAY KUMAR, AD
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 Priyanka Srivastava,
 INSP/CRPF


 Anil Rajput, DC/BSF


 Vikas Godara, AR


 Dinesh Chandra Pandey
 AC/ITBP


 Harbham Singh
 ASI/SSB


 Sita Ram, SISA
 NSG


 Mani Lalit Kumar
 TC(WE)HQ NSG

<u>Ser No</u>	<u>Qualitative Requirements</u>	<u>Trial Methodology</u>
	(f) Battery	
	(i) Endurance - Minimum 2 Hours in continuous running mode with all features "on".	To be physically checked by BOO
	(ii) (aa) Spare Batteries should be provided as per user requirements. (User to specify) (ab) Minimum 500 charge cycles	OEM to provide undertaking
	(g) Drive and Speed	
	(i) Drive -4 Wheel drive	To be physically checked by BOO
	(ii) Tracks/ flips/arrangements for negotiating stairs - Suitable tracks/ flips/ arrangements for negotiating stairs to be provided for movement in rough terrain (Optional- As per user requirement)	To be physically checked by BOO
	(iii) Speed - Variable Speed during operation with Speed minimum 3.5 Km/Hr or more	To be physically checked by BOO
	(iv) Maneuverability - (i) The Robot should be maneuverable in a variety of rough terrain. Should be able to climb steps at least 200mm high. It should be able to climb two or more steps in continuation provided the width of each step is at least 400mm. (ii) The Robot should be able to swivel or rotate on its axis at the same place (iii) Robot should be able to self-right when overturned or alternatively the four wheeled robot should be able to carry out all its functions even when overturned	To be physically checked by BOO



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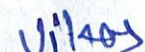
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SPR2D



Piyush Srivastava, INSP
CRPF



Anil Rastogi, DC/BSF



Vikas Godara, AR



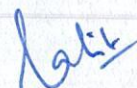
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Pandey, AC/ITBB



Harbhan Singh
ASI/SSB

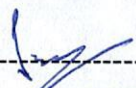


Sita Ram, SISAG
NSG



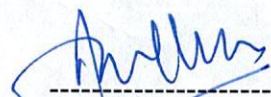
Maj Lalit Kumar
TC(WF) HQ NSG

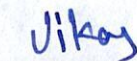
<u>Ser No</u>	<u>Qualitative Requirements</u>	<u>Trial Methodology</u>
3.	Control Unit - Should receive and display audio and video reconnaissance data picked up by Robot and should also be able to control all features of robot.	To be physically checked by BOO
(a)	Weight - Less than 1.5 Kg for screen size of 5 inch (10% allowance acceptable for larger screen size, which should not be more than 7 inch)	To be physically checked by BOO
(b)	Screen - Control Unit to have suitable 5 inches screen or more depending upon user requirement (User to specify at the time of tendering)	To be physically checked by BOO
(c)	Display - The display should offer visuals from all the cameras simultaneously	To be physically checked by BOO
(d)	Battery - Suitable rechargeable battery to offer 180 minutes of endurance or better	To be physically checked by BOO
(e)	Suitable inbuilt or miniaturized external Video Recorder with Minimum 500GB storage capacity and Compatible with Windows OS 10 for data extraction	To be physically checked by BOO
4.	Battery Charger - Suitable 110/220 V AC battery Chargers to charge the Robot and Control Unit batteries. Separate chargers required for Control Unit and Robot.	To be physically checked by BOO
5.	Portability and Storage -The equipment to be provided in suitable pelican box for ease of carriage. In addition, vendor to provide suitable deployment sling and bag to carry robot and control unit during operations.	To be physically checked by BOO
6.	Maintenance Kit - Suitable maintenance kit with recommended accessories to be provided to reduce Mean Time to Repair (MTTR).	To be physically checked by BOO
7.	Literature - Operating and Technical literature for each discrete components of system should be in English language	To be physically checked by BOO

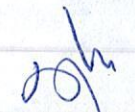

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 BINAY KUMAR, AD
 BPR&D


 Priyush Srivastava
 INAP/CRPF

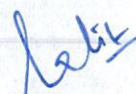

 Anil Rajput, DC, BSF


 Vikas Godara, AR

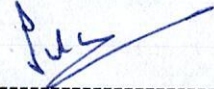

 Dinesh Chandra Pandey
 AC/ITBP


 Harbhans Singh
 ASI/SSB


 Sita Ram, SI SAG
 NSG

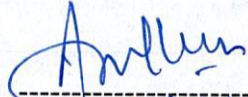

 Maj Lalit Kumar
 TC (WE) HQ NSG

Ser No	Qualitative Requirements	Trial Methodology
8.	Training Demonstration of one set of complete system with its full accessories should be arranged at buyers premises on NO cost NO commitment basis. In situ training of users for three day on operation, maintenance, fault finding and user level repairs.	Undertaking from the OEM for the training. Authenticity and Correctness of the undertaking to be submitted by BOO.
9.	Ruggedisation All the equipment should comply with Mil Std 810G or better and <u>IP 65</u> or better	OEM to provide International/ National/NABL accredited lab certificate.


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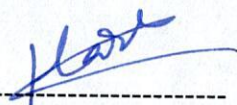

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 INSP/PR PRAKASH PRASAD
 CRPF

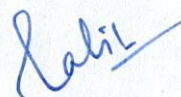

 Anil Rajput,
 SF

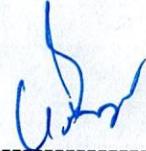

 Vikas
 Vikas Godara
 AR


 GANESHA CHANDRA
 PANDAY AC(T)
 ITBP


 ASI/Commr Harbhajan
 Singh (SSB)

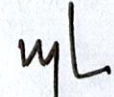

 MSUB-SITA RAM
 SI SAG


 Maj Lalit Kumar
 TC, WE, HQ NSG


 Rajesh Ranjan
 GC (Proc), HQ NSG


 Princee Rani, IPS
 IG (Proc), NSG

Approved/ Not Approved


 (B Srinivasan) IPS
 Director General, NSG