

F.No. IV-17018/01/2007/Prov-I 338
Bharat Sarkar/Government of India
Griha Mantralaya/Ministry of Home Affairs
PM Division

26, Man Singh Road, Jaisalmer House
New Delhi, Dated 16th February, 2015

To,

DsG: AR (through LOAR), BSF, CISF, CRPF, ITBP, SSB, NSG & BPR&D.

Subject: QRs and Trial Directive for Rigid Inflatable Boat with 4 stroke OBM.

Sir,

The revised QRs and Trial Directives for the Rigid Inflatable Boat with 4 stroke OBM have been approved by the Competent Authority in MHA, as per Annexure.

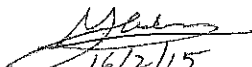
2. This supercedes the existing QRs for the same, notified by this Ministry's letter No. IV-17018/1/2007-Prov-I dated 29.08.2007.

3. The CAPFs concerned will be accountable for correctness of the QRs/Trial Directives

4. Henceforth, all the CAPFs should procure the above item required by them strictly as per the laid down Technical Specifications/QRs.

Yours faithfully,


Encl: As above


16/2/15
(M.K. Chahar)

Under Secretary to the Govt of India
Tel: 23381278

Copy forwarded for necessary action to :-

The Section Officer (IT), MHA: It is requested to replace the existing QRs and Trial Directives with instant QRs (soft copy attached) on the MHA website (under the page of Organizational Set up- Police Modernization Division- Qualitative Requirement under Vehicle Equipments list.


(R.K. Soni)
Section Officer (Prov-I)

Copy to: DDG (Procurement), MHA.



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APPENDIX - B
QUALITATIVE REQUIREMENT/TECHNICAL SPECIFICATION OF QRS OF RIGID INFLATBLE BOAT WITH 4 STROKE OBM

S.No	Specifications/Parameters
<i>RIB - B</i>	
General	
1.	For transport of men and materials, random patrolling, limited search and rescue operation in river water & sea having tidal current upto sea State-4. Provision of toughened glass wind screen. Have an minimum life of 10 years.
Specification/Parameters	
1.	Dimension Length(overall) - 6.00 - 6.5 Mtrs Beam (including Collar) - 2.15 - 2.8 Mtrs Depth - 1 Meter ± 0.10 Mtr
2.	Engine Fitted with four stroke petrol out board motors (OBM) of reputed make, not less than 75 HP with remote wheel steering (rack and pinion type), remote trimming and tilting arrangement for engine and throttle/gear control having life of 10 Years or 1200 run hours. The engine manufacturers should have established service support in India. Grade of Lubricant Oil, Petrol/Motor sprit to match with unleaded Patrol/Motor sprit compatible in Indian Market.
3.	Speed Maximum Speed - Not less than 25 Knots with 08 person on board @ 85% MCR.
4.	Endurance 5 hours of continuous operation without refueling at the speed of 20 Knots with full load (08 person on board).
5.	Fuel Tanks Portable marine fuel tank of 25 ltrs capacity with 02 Nos spare Marine container of 20 ltrs capacity or with 2x110 under deck stainless steel fuel tanks.
6.	Draught (Full Loaded) Not more than 0.5 Mtr.
7.	Capacity - Secured & comfort seating arrangements for 08 persons with jockey seats in two row of four seats has backrest and side supporting wings.

PO [Signature] M-1 [Signature] M-2 [Signature] M-3 [Signature] M-4 [Signature] M-5 [Signature]
M-6 [Signature] M-7 [Signature] M-8 [Signature] M-9 [Signature] Co-opted Member [Signature]

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S.No	Specifications/Parameters
08.	<p style="text-align: center;"><i>RIB - B</i></p> <p>Hull</p> <p>Deep V shape hull at the bow and flattens at the rear. Made of Fibre-reinforced Plastic(FRP) or Glass-reinforced Plastic(GRP), smooth surface coated with pigment colour get. Under deck compartment with Flood Control design. Good intact and damage stability and survivability, water tight integrity and crew/equipment protection upto sea state-4 and must comply with class certificate. Rigid Transom to fit the OBM. Three point lifting arrangement with approved on/off load release hook be provided. Material used to be class approved.</p>
09.	<p>Tube(Collar)</p> <p>The collar should be approx 0.4 to 0.5 Mtr in diameter and extend from just behind the transom to the bow. Minimum 7 separate inflation chambers with pressure relief valves (over-pressure valves) & inflation valves. Painted on full-length interior and exterior hand lines and handles. Made of Hyplon coated neoprene fabric. Should be resistant to degradation when exposed to ultra-violet-light(Sunlight). Material to be used should be of 1500 GSM/1670 D-TEX approved by class.</p>
10	<p>Floor</p> <p>Anti-Skid floor/deck and All surfaces shall be of minimum maintenance and easy to clean. The areas shall have adequate handholds.</p>
11.	<p>Lifesaving equipment (SOLAS/any of the classification society of IACS approved)</p> <p>Lifejackets – 10 Nos Life buoy – 02 Nos</p>
12.	<p>Navigation/Communication</p> <p>Simple bracket - mounted portable small size of Mariner's compass shall be fitted on the instrument panel. Necessary fitments and securing arrangements for all instruments and VHF Communications be provided. Provision for navigation lights/sound equipment in accordance with IRPCS.</p>

PO *[Signature]* M-1 *[Signature]* M-2 *[Signature]* M-3 *[Signature]* M-4 *[Signature]* M-5 *[Signature]*

M-6 *[Signature]* M-7 *[Signature]* M-8 *[Signature]* M-9 *[Signature]* Co-opted Member *[Signature]*

S.No	Specifications/Parameters
13.	<p style="text-align: center;"><i>RIB - B</i></p> <p>Instruments panel</p> <p>The instrument panel shall be mounted in front of the helmsman position and shall contain engine instrumentation and switching. Cable wiring shall be loomed inside the console and fed through ducting to the engine. The instrumentation shall include the following;-</p> <ul style="list-style-type: none"> a) One Engine key Switch. b) Navigation light switches. c) Dimmer switch for all instrumentations. d) Horn button e) Voltmeter f) A hand held GPS of reputed firm facilitate to run with onboard battery g) Digital meter with following features :- <ul style="list-style-type: none"> (i) RPM (ii) Temperature (ii) Oil pressure of engine (iv) Consumption of POL (v) Run hour (vi) Indication of trouble of the OBM <p>All instruments and switches shall be weather proof and shock resistant. All buttons shall be rubber sealed. Meter illumination and warning lights shall be fitted. All wiring, cables, electrical & electronic components, starter motors should comply with IP 57 rating and above.</p>

PO *[Signature]* M-1 *[Signature]* M-2 *[Signature]* M-3 *[Signature]* M-4 *[Signature]* M-5 *[Signature]*

M-6 *[Signature]* M-7 *[Signature]* M-8 *[Signature]* M-9 *[Signature]* Co-opted Member *[Signature]*

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S.No	Specifications/Parameters
14	<p style="text-align: center;"><i>RMS - P</i></p> <p>Boat Equipment</p> <ul style="list-style-type: none"> i. 12 kg Graphinel anchor with 30 mtr , PP rope of sufficient strength. ii. Boat Hook having 12 feet length (aluminum make folding type) iii. Oars 02 Nos with (rowing lock) iv. Mooring Lines 32 Mtr v. Electric Horn Marine Grade – 01 No vi. Re-chargeable torch (with a signaling capability) vii. FRP Repair Kit viii. Fuel line with male/female adopter with priming valve - 01 set ix. Fuel filter – 6 Nos x. Oil filter – 3 Nos xi. Spark plug – 4 Nos xii. Spare fuses – 1 set xiii. Socket and torque handle for spark plug removal – 1 No. xiv. Pliers (6 inch) – 01 No. xv. Screwdriver – 01 Set xvi. Spare propeller, lock nut and special tab washer – 01 No. xvii. Suitable sockets for propeller removal – 01 No. xviii. Hand held Marine search light with adopter compatible with 12 volts panel system – 01 No. xix. Hand held GPS – 01 No xx. Portable spray type fire extinguisher capacity 01 kg suitable to extinguish ABC type fire – 02 Nos xxi. Oil filter opening tool- 01 No. xxii. Mooring Warps – 02 Nos xxiii. Fuel filler cap key – 01 No

PO *[Signature]* M-1 *[Signature]* M-2 *[Signature]* M-3 *[Signature]* M-4 *[Signature]* M-5 *[Signature]*

M-6 *[Signature]* M-7 *[Signature]* M-8 *[Signature]* M-9 *[Signature]* Co-opted Member *[Signature]*

RIA P


S.No	Specifications/Parameters
Boat Equipment	
xxiv.	Bow Fairlead (fitted on collar) - 01 No
xxv.	Stern Fairlead (Fitted on Collar) - 02 Nos.
xxvi.	Stern Fairlead (fitted on transom) - 02 Nos.
xxvii.	Lifting eye plates for four point and two point lifting system - 01 Set
xxviii.	Batteries - 02 Nos
xxix.	Towing eye U'bolt through stem - 01 No
xxx.	Buoyant Paddles with stowage pockets fitted on collars - 02 Nos.
xxxii.	Canvas covering on all handrails - 01 Set
xxxiii.	Lifting Slings - 01 Set
xxxiv.	Boat Hooks with stowage pockets fitted on collars - 02 Nos
xxxv.	Mooring Rope stowage (Collar mounted) - 02 Nos
xxxvi.	Charging Socket - 01 No
xxxvii.	Collar repair Kit - 02 Nos
xxxviii.	Portable Fire Extinguishers - As per SOLAS requirement. (02 Nos)
xxxix.	Hand Signaling lamp with stowage - 01 No
xl.	Compass with stowage - 01 No
xli.	Distress signal box with stowage - 01 No
xlii.	First Aid Kit with stowage - 01 No
xliii.	Special tools for overhaul of engine - 01 Set
xliv.	Whistle - 01 No
15.	Bilging arrangement
Electrical bilge pump run by on board OBMs battery be provided as per class requirement.	
16.	Bollard and cleats
Bollards-03 Nos, 01 Fwd and 02 Aft	
Cleats -04 Nos 02 Fwd & 02 Aft	
Bollard & cleats to be of SS 316 grade	


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
M-6 *[Signature]* M-7 *[Signature]* M-8 *[Signature]* M-9 *[Signature]* Co-opted Member *[Signature]*


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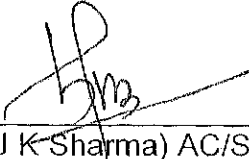
S.No	Specifications/Parameters
17	CERTIFICATE The following Certificate and Documents shall be supplied at the time of delivery of the vessel:- a) Classification Certificate issued by Classification Society Rules. b) GA drawing alongwith other plan approved by class. c) Stability booklet
18.	Classification / Regulations & Marks on Hull, Superstructure etc a) Boat shall be designed, built, and outfitted to comply with all the applicable provisions of class Rules of IRS/ABS/BV/DNV/LRS and requirements of the current International Rules and Regulations. b) All fitting & fixtures shall be of SS-316 grade. c) The crafts name, ID No, crafts emblem is to be affixed to both sides of the hull at super structure level. The crafts name, ID No. BSF emblem and National Flag to be affixed.
19.	Electrical power supply Electrical power supply to the boat for wheel console meter, navigational lights, search lights, GPS etc shall be drawn from on board OBMs rechargeable secondary battery (12 Volt – 17 plate).
20.	Fresh water capacity Provision for keeping fresh water in two water tanks/containers having 20 ltrs capacity in each with securing arrangement in boat to be provided.


PO 
(Kunal Mazumdar) DIG, BSF


M-1 
(Ravindra Singh Kushwah), AC/NDRF


M-2 
(SANJEEV SINGH) DC | CRPF

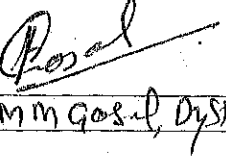
M-3 
(Hardeep Singh, AC) ITBP


M-4 
(J K Sharma) AC/SSB

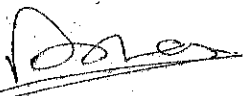
M-5 
(S K Thakur), DC/AR

M-6 
(Inspr Rakesh Kumar) CISF


M-7 
(Inspr Rajender Prasad) NSG

M-8 
(Dr. M M Gosai, DyS), BPR&D

M-9 
(G B Pathak, AC), BSF
WV Madhopur

Co-opted Member 
(K K Dhawan)
Principal Surveyor IRS

Approved / Not approved


Director General
Border Security Force.

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APPENDIX - 'C'

QUALITATIVE REQUIREMENT/TRIAL DIRECTIVES OF QRS OF RIGID INFLATABLE BOAT WITH OBM

S.No	Specifications/Parameters	Trial Directive
General		
1.	For transport of men and materials, random patrolling, limited search and rescue operation in river water & sea having tidal current upto sea State-4. Provision of toughened glass wind screen. Have an minimum life of 10 years.	Check physically and verify with record of classification society for compliance.
Specification/Parameters		
1.	Dimension Length(overall) - 6.00 - 6.5 Mtrs Beam (including Collar) - 2.15 - 2.8 Mtrs Depth - 1 Meter ± 0.10 Mtr	Check visual lines plan and general arrangement plan of the boat and compare by physical measurements etc using standard methods.
2.	Engine Fitted with four stroke petrol out board motors (OBM), not less than 75 HP with remote wheel steering (rack and pinion type), remote trimming and tilting arrangement for engine and throttle/gear control. The engine manufacturers should have established service support in India. Grade of Lubricant Oil, Petrol/Motor sprit to match with unleaded Petrol/Motor sprit compatible in Indian Market.	Trial to be undertaken as per class requirement.
3.	Speed Maximum Speed - Not less than 25 Knots with 08 person on board @ 85% MCR.	Speed trials need to be undertaken Physically & Practically considering the effect of tide/current, etc using standard methods.
4.	Endurance 5 hours of continuous operation without refueling at the speed of 20 Knots with full load (08 person on board).	Endurance trial to be carried out on basis of average of 2 hours during water trial with full pay load.
5.	Fuel Tanks Portable marine fuel tank of 25 ltrs capacity with 02 Nos spare Marine container of 20 ltrs capacity.	Physically check by filling with measuring volume of fuel during endurance trial.
6.	Draught (Full Loaded) Not more than 0.5 Mtr.	Check lines plan and general arrangement plan of boat and compare by physical examination etc using standard methods.
7.	Capacity - Secured & comfort seating arrangements for 08 persons with jockey seats in two row of four seats has backrest and side supporting wings.	Check with 08 persons sitting with all equipments in the boat comfortably.

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 M-6 [Signature] M-7 [Signature] M-8 [Signature] M-9 [Signature] Co-opted Member [Signature]
 31/12/14

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S.No	Specifications/Parameters	Trial Directive
08.	<p><u>Hull</u></p> <p>Deep V shape hull at the bow and flattens at the rear. Made of Fibre-reinforced Plastic(FRP) or Glass-reinforced Plastic(GRP), smooth surface coated with pigment colour get. Under deck compartment with Flood Control design. Good intact and damage stability and survivability, water tight integrity and crew/equipment protection upto sea state-4 and must comply with class certificate. Rigid Transom to fit the OBM. Three point lifting arrangement with approved on/off load release hook be provided. Material used to be class approved.</p>	<p>Check physically and verify the builder's laying-up records with class approved drawings.</p>
09.	<p><u>Tube(Collar)</u></p> <p>The collar should be approx 0.4 to 0.5 Mtr in diameter and extend from just behind the transom to the bow. Minimum 7 separate inflation chambers with pressure relief valves (over-pressure valves) & inflation valves. Painted on full-length interior and exterior hand lines and handles. Made of Hyplon coated neoprene fabric. Should be resistant to degradation when exposed to ultra-violet-light(Sunlight). Material to be used should be of 1500 GSM/1670 D-TEX approved by class.</p>	<p>Physical check practically measuring the dimension by standard method.</p>
10	<p><u>Floor</u></p> <p>Anti-Skid floor/deck and All surfaces shall be of minimum maintenance and easy to clean. The areas shall have adequate handholds.</p>	<p>Check physically & practically.</p>
11.	<p><u>Lifesaving equipment (SOLAS/any of the classification society of IACS approved)</u></p> <p>Lifejackets – 10 Nos Life buoy – 02 Nos</p>	<p>Check physically/visually. Also verify the records of the classification society of IACS approval.</p>
12.	<p><u>Navigation/Communication</u></p> <p>Simple bracket - mounted portable small size of Mariner's compass shall be fitted on the instrument panel. Necessary fitments and securing arrangements for all instruments and VHF Communications be provided. Provision for navigation lights/sound equipment in accordance with IRPCS.</p>	<p>Check function and appropriate data of all equipments fitted on boat during open trial.</p>

PO M. S. Sub M-1 PKR M-2 81 M-3 SK M-4 hpb M-5 RS
M-6 Raj M-7 Raj M-8 Basol M-9 S. S. Ch Co-opted Member RS
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M-6

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M-8

M-9

Co-opted Member

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S.No	Specifications/Parameters	Trial Directive
13.	<p style="text-align: center;"><i>R.I.C. - 'C'</i></p> <p>Instruments panel The instrument panel shall be mounted in front of the helmsman position and shall contain engine instrumentation and switching. Cable wiring shall be loomed inside the console and fed through ducting to the engine. The instrumentation shall include the following;-</p> <ul style="list-style-type: none"> a) One Engine key Switch. b) Navigation light switches. c) Dimmer switch for all instrumentations. d) Horn button e) Voltmeter f) A hand held GPS of reputed firm facilitate to run with onboard battery g) Digital meter with following features :- <ul style="list-style-type: none"> (i) RPM (ii) Temperature (ii) Oil pressure of engine (iv) Consumption of POL (v) Run hour (vi) Indication of trouble of the OBM <p>All instruments and switches shall be weather proof and shock resistant. All buttons shall be rubber sealed. Meter illumination and warning lights shall be fitted. All wiring, cables, electrical & electronic components, starter motors should comply with IP 57 rating and above.</p>	<p>Check function and appropriate data of all equipments fitted on boat during open trial.</p>

PO *[Signature]* M-1 *[Signature]* M-2 *[Signature]* M-3 *[Signature]* M-4 *[Signature]* M-5 *[Signature]*

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S.No	Specifications/Parameters	
14	<p>Boat Equipment</p> <ul style="list-style-type: none"> i. 12 kg Graphinel anchor with 30 mtr , PP rope of sufficient strength. ii. Boat Hook having 12 feet length (aluminum make folding type) iii. Oars 02 Nos with (rowing lock) iv. Mooring Lines 32 Mtr v. Electric Horn Marine Grade – 01 No vi. Re-chargeable torch (with a signaling capability) vii. FRP Repair Kit viii. Fuel line with male/female adopter with priming valve - 01 set ix. Fuel filter – 6 Nos x. Oil filter – 3 Nos xi. Spark plug – 4 Nos xii. Spare fuses – 1 set xiii. Socket and torque handle for spark plug removal – 1 No. xiv. Pliers (6 inch) – 01 No. xv. Screwdriver – 01 Set xvi. Spare propeller, lock nut and special tab washer – 01 No. xvii. Suitable sockets for propeller removal – 01 No. xviii. Hand held Marine search light with adopter compatible with 12 volts panel system – 01 No. xix. Hand held GPS – 01 No xx. Portable spray type fire extinguisher capacity 01 kg suitable to extinguish ABC type fire – 02 Nos xxi. Oil filter opening tool- 01 No. xxii. Mooring Warps – 02 Nos 	<p>Check physically function and appropriate data of all equipment's fitted on boat during open trial.</p>

PO [Signature] M-1 [Signature] M-2 [Signature] M-3 [Signature] M-4 [Signature] M-5 [Signature]
 M-6 [Signature] M-7 [Signature] M-8 [Signature] M-9 [Signature] Co-opted Member [Signature]
 Date: 3/12/19


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S.No	Specifications/Parameters	TDs
	<p style="text-align: center;">RIB - C</p> xxiii. Fuel filler cap key – 01 No xxiv. Bow Fairlead (fitted on collar) - 01 No xxv. Stern Fairlead (Fitted on Collar) - 02 Nos. xxvi. Stern Fairlead (fitted on transom) – 02 Nos. xxvii. Lifting eye plates for four point and two point lifting system – 01 Set xxviii. Batteries – 02 Nos xxix. Towing eye U'bolt through stem – 01 No xxx. Buoyant Paddles with stowage pockets fitted on collars – 02 Nos. xxxi. Canvas covering on all handrails – 01 Set xxxii. Lifting Slings – 01 Set xxxiii. Boat Hooks with stowage pockets fitted on collars – 02 Nos xxxiv. Mooring Rope stowage (Collar mounted) – 02 Nos xxxv. Charging Socket – 01 No xxvi. Collar repair Kit – 02 Nos xxvii. Portable Fire Extinguishers – As pe SOLAS requirement.(02 Nos) xxviii. Hand Signaling lamp with stowage – 01 No xxix. Compass with stowage – 01 No xl. Distress signal box with stowage – 01 No xli. First Aid Kit with stowage – 01 No xlii. Special tools for overhaul of engine – 01 Set xliii. Whistle – 01 No	
15.	<u>Bilging arrangement</u> Electrical bilge pump run by on board OBMs battery be provided as per class requirement.	Check physically & practically during open trial.
16.	<u>Bollard and cleats</u> Bollards-03 Nos, 01 Fwd and 02 Aft Cleats -04 Nos 02 Fwd & 02 Aft Bollard & cleats to be of SS 316 grade	Check physically.


PO [Signature] M-1 [Signature] M-2 [Signature] M-3 [Signature] M-4 [Signature] M-5 [Signature]
 M-6 [Signature] M-7 [Signature] M-8 [Signature] M-9 [Signature] Co-opted Member [Signature] M-5 [Signature]
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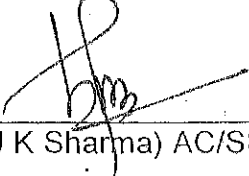
S.No	Specifications/Parameters	Trial Directive
17	CERTIFICATE The following Certificate and Documents shall be supplied at the time of delivery of the vessel:- a) Classification Certificate issued by Classification Society Rules. b) GA drawing alongwith other plan approved by class. c) Stability booklet	Check physically
18.	Classification / Regulations & Marks on Hull, Superstructure etc a) Boat shall be designed, built and outfitted to comply with all the applicable provisions of class Rules of IRS/ABS/BV/DNV/LRS and requirements of the current International Rules and Regulations. b) All fitting & fixtures shall be of SS-316 grade. c) The crafts name, ID No, crafts emblem is to be affixed to both sides of the hull at super structure level. The crafts name, ID No. BSF emblem and National Flag to be affixed.	Check classification society approved certificates compare by physical checking.
19.	Electrical power supply Electrical power supply to the boat for wheel console meter, navigational lights, search lights, GPS etc shall be drawn from on board OBMs rechargeable secondary battery (12 Volt – 17 plate).	Check physically the working condition of all equipments.
20.	Fresh water capacity Provision for keeping fresh water in two water tanks/containers having 20 ltrs capacity in each with securing arrangement in boat to be provided.	Physically check with measured volume of water.


PO 
(Kunal Mazumdar) DIG, BSF

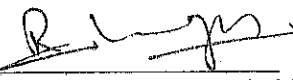
M-1 
(Ravindra Singh Kushwah), AC/NDRF


M-2 
(SANGEEV SINGH) DC/CRPF

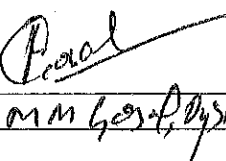
M-3 
(Hardeep Singh, AC) ITBP


M-4 
(J K Sharma) AC/SSB

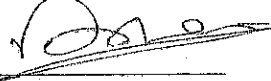
M-5 
(S K Thakur), DC/AR


M-6 
(Inspr Rakesh Kumar) CISF

M-7 
(Inspr Rander Prasad) NSG

M-8 
(Dr. M M Goyal), BPR&D

M-9 
(G B Pathak, AC), BSF
WW Madhopur

Co-opted Member 
(Dr K K Dhawan)
Principal Surveyor IRS


Director General

Approved / Not approved