

Directorate General, ITBP Force
(Provisioning Dte-M&S Desk)
MHA-Government of India
Block-2, CGO Complex
Lodhi Road, New Delhi-03
(Fax 011-24364267, Email-digprov@itbp.gov.in)

No. IV-17012/13/2018/Prov (M&S) - 6300-02 Dated, 15th October 26

To

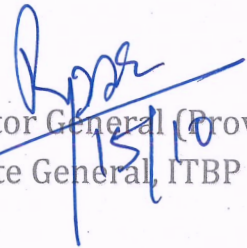
Technical Director, NIC
North Block
New Delhi
E-mail- mpsundhi@nic.in

Sub: Regarding hosting of "Expression of Interest (EOI)" for draft QRs/ Specification for 18 Mountaineering Clothing & Equipments on MHA website for 15 days

Please refer to the MHA Order No. 11012/02/2009-Fin-I/Prov-I-17 dated 02.01.2018 regarding hosting of draft QRs/Specifications and Trial Directives on MHA website for 15 days.

2. ITBP is in the process of revising the QR (Qualitative Requirements)/ Specification in r/o 18 Mountaineering clothing & equipments.
3. Hence the "Expression of Interest (EOI)" along with the draft QRs Specification of the Mountaineering clothing & equipments items are attached herewith for hosting the same on the MHA website for 15 days i.e upto 30.10.2026.
4. In this connection it is also requested that after needful the same may please be intimated on e-mail digprov@itbp.gov.in.

Encl.: EOI along with draft QRs/Specifications.


Dy Inspector General (Prov)
Directorate General, ITBP

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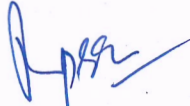
1. SO (IT) , North Block for information and necessary action please in his e.mail ID-soit@nic.in
2. The Commandant, IT Cell, Dte Genl ITB Police-alongwith QRs/Specification for uploading on ITBP website also.

EXPRESSION OF INTEREST

ITBP is in the process of revising the QRs (Qualitative Requirements) Specification for 18 Mountaineering Clothing & Equipment for ITBP. The draft revised QRs Specifications of the item is attached herewith.

The interested Vendor/firms dealing in subject matter are invited to submit their views/opinions in the draft revised QRs/Specification of the item by 30/10/2026

Contact Person:



(R.P.S. Raghuvanshi)

DIG (Provision)

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E-mail-digprov@itbp.gov.in)

provdte@itbp.gov.in)

DRAFT QRS/SPECIFICATION OF MOUNTAINEERING EQUIPMENT AND CLOTHING ITEMS

1. This Specification has been prepared by CAPFs sub-group committee.
2. This Specification would be used for manufacture, quality assurance and procurement of the items
3. This Quality Assurance Authority reserves the right to amend or modify the specification as and when required
4. This Quality Assurance Authority is the competent authority to grant concessions. If any in respect of any clause contained in this specification
5. To ensure the quality of mountaineering clothing and equipment, it has been decided to incorporate CE/EN/UIAA/BIS standards in the QR/Specifications. Furthermore, the following conditions may be added to the tender.
 - i. **Certification by firms:-** Self-certification by the firms in r/o mandatory compliance to either CE/EN/UIAA /BIS certification for the item under procurement”.
 - ii. **Lab Test Report:-** All tenderers may be requested to submit a lab test report of each item (When required) corresponding to the concerned certification for each item.
 - iii. **Tender Condition:-** Technical evaluation to be carried out by constituting BoO which will include experts of Mountaineering from M&SI Auli/ Central Mountaineering Team.
 - iv. **Line Committee:-** The line committee should mandatorily include representatives of Mountaineering experts (like from M&SI Auli/ Central Mountaineering Team) to ascertain the quality of products.

S.N.	NAME OF EQUIPMENTS/CLOTHING ITEMS	QRS/SPECIFICATION
1.	CARABINER SCREW TYPE	1. SHOULD FACILITATE MINUTE SCREW LOCKING 2. SHOULD NOT WEIGHT MORE THAN 85 GRAMS 3. BREAKING STRENGTH SHOULD NOT BE LESS THAN 24 KN 4. MINOR AXIS BREAKING STRENGTH SHOULD NOT BE LESS THAN 8KN AND FOR OPEN GATE NOT LESS THAN 7 KN 5. MATERIAL SHOULD BE ALUMINIUM ALLOY. 6. SHOULD BE CE/ EN /UIAA CERTIFIED
2.	ASCENDER	1. ERGONOMIC MOULDED HAND GRIP TO ENSURE COMFORT AND SECURE GRIP. 2. LIGHTWEIGHT CONSTRUCTION: ≤195 G PER UNIT. 3. WIDE OPENING TO ALLOW EASY USE EVEN WITH THICK GLOVES. 4. SHOULD HAVE TOOTHED CAM WITH SELF-CLEANING SLOT FOR FROZEN OR DIRTY ROPES. 5. CAM DESIGN SHOULD INCLUDE A MINIMUM OF 20 TEETH FOR RELIABLE ROPE GRIP. 6. INTEGRATED SAFETY CATCH SHOULD BE BUILT INTO BODY TO PREVENT SNAGGING AND ACCIDENTAL OPENINGS. 7. MINIMUM TWO ATTACHMENT HOLES: ONE FOR CARABINER AROUND ROPE, ONE FOR FOOT LANYARD/FOOTLOOP. 8. ROPE COMPATIBILITY: SUITABLE FOR DIAMETERS 8–13 MM. 9. MATERIALS: ALUMINIUM, STAINLESS STEEL, PLASTIC, RUBBER, NYLON. 10. SHOULD HAVE OPENING SYSTEM PROTECTION ON BACK SIDE TO PREVENT ACCIDENT OPENINGS. 11. SHOULD BE CE/ EN/ UIAA CERTIFIED.

S.N.	NAME OF EQUIPMENTS/CLOTHING ITEMS	QRS/SPECIFICATION																		
3.	ALUMINIUM STRETCHER FOLDING	1. SHOULD HAVE MINIMUM CARRYING CAPACITY OF 120 KG. 2. SHOULD BE SUITABLE FOR MOUNTAIN RESCUE OPERATIONS. 3. SHOULD HAVE A TUBULAR FRAME MADE FROM HIGH-STRENGTH ALUMINIUM ALLOY. 4. SHOULD HAVE FOLDING CAPABILITY, ALLOWING DIVISION INTO TWO HALVES FOR EASY PORTABILITY AND COMPACT STORAGE. 5. SHOULD BE VERY LIGHT, DURABLE, AND SCRATCH-RESISTANT, MAKING IT VERSATILE FOR RESCUE MISSIONS. 6. SHOULD HAVE WIDE, PADDED SHOULDER BELTS, ALONG WITH SHOULDER STRAPS AND HIP BELTS FOR SECURE AND COMFORTABLE CARRYING. 7. THE BASE SHOULD BE STRONG, DURABLE, AND DESIGNED TO FUNCTION AS A SLIDING SURFACE ON SNOW WHILE CARRYING HEAVY LOADS. 8. SHOULD HAVE MULTIFUNCTIONAL HAND-BRAKING BELTS FOR FIXATION OF INJURED PERSONS AND STABILIZATION OF LOADS DURING EVACUATION.																		
4.	ALUMINIUM LADDER	1. SHOULD BE MADE OF BEST ALUMINIUM 2. WIDTH OF STEP SHOULD BE 25 INCH 3. DISTANCE BETWEEN ONE STEP TO ANOTHER STEP MIN 9 INCH 4. SHOULD HAVE RUBBER SHOE ON THE TOP AND BOTTOM OF THE LADDER 5. SHOULD HAVE HOLE ON THE BOTH SIDE OF THE LADDER AT THE BOTTOM AS WELL AS ON THE TOP 6. SHOULD BE LIGHT AND EASY TO CARRY 7. LENGTH AS PER USER REQUIREMENTS 8. WEIGHT CAPACITY: 300KG 9. SHOULD BE BIS CERTIFIED																		
5.	FRIENDS (S.L.C.D.)	1. SHOULD BE SUITABLE FOR ALL TYPES OF CRACKS. 2. DESIGN SHOULD BE LIGHTWEIGHT AND COMPACT. 3. STRENGTH SHOULD BE AS PER INTERNATIONAL CERTIFICATION STANDARDS. 4. MATERIAL SHOULD BE OF HIGH QUALITY AND DURABLE. 5. CRACK COVERAGE RANGE OF SET SHOULD BE 13- MM TO 145 MM. 6. SHOULD INCLUDE ALL SPECIFIED SIZES. 7. SHOULD BE CE / EN / UIAA CERTIFIED. 8. SHOULD BE PROVIDED IN SETS. EACH SET SHOULD CONSIST OF 08 FRIENDS AS BELOW:- <table><tr><th>Size</th><th>Crack Range (approx.)</th></tr><tr><td>0.25-0.4</td><td>13-23 mm</td></tr><tr><td>0.5</td><td>19-33 mm</td></tr><tr><td>0.75</td><td>24-41 mm</td></tr><tr><td>1</td><td>30-52 mm</td></tr><tr><td>2</td><td>37-65 mm</td></tr><tr><td>3</td><td>51-88 mm</td></tr><tr><td>4</td><td>66-115 mm</td></tr><tr><td>5</td><td>85-145 mm</td></tr></table>	Size	Crack Range (approx.)	0.25-0.4	13-23 mm	0.5	19-33 mm	0.75	24-41 mm	1	30-52 mm	2	37-65 mm	3	51-88 mm	4	66-115 mm	5	85-145 mm
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6.	CHOCK NUT	1. SHOULD BE AVAILABLE IN ALL SIZES COVERING SMALL TO LARGE CRACKS FROM 7MM TO 28MM. 2. SHOULD BE SUITABLE FOR ALL TYPES OF CRACKS INCLUDING HORIZONTAL AND VERTICAL PLACEMENTS.																		

S.N.	NAME OF EQUIPMENTS/CLOTHING ITEMS	QRS/SPECIFICATION
		3. MATERIAL SHOULD BE OF HIGH QUALITY AND DURABLE. 4. STRENGTH SHOULD NOT BE LESS THAN 6 KN ACROSS ALL SIZES. 5. SHOULD HAVE A CURVED DESIGN FOR SECURE PLACEMENT AND EASY REMOVAL. 6. COLOR-CODED HEADS FOR FASTER SELECTION DURING CLIMBING. 7. LENGTH RANGE BETWEEN 17-40 MM DEPENDING ON SIZE. 8. SHOULD BE SUITABLE FOR MULTI-PITCH CLIMBING. 9. SHOULD BE PROVIDED IN SETS, EACH SET CONSISTING OF 09 CHOCK NUTS ; 10. SIZE- 1 TO 9 HAVING STRENGTH OF 6 KN AND ABOVE 11. SET WEIGHT SHOULD NOT BE MORE THAN 380 GM. 12. SHOULD BE CE / EN / UIAA CERTIFIED.
7.	RACK DESCENDER	1. THE RACK DESCENDER SHOULD BE EASY TO USE FOR CONTROLLED DESCENT. 2. SHOULD BE COMPATIBLE WITH ROPES UP TO 13 MM DIAMETER. 3. DESIGN SHOULD BE LIGHT AND COMPACT FOR MOUNTAINEERING USE. 4. MATERIAL SHOULD BE STAINLESS STEEL OR ALUMINIUM ALLOY. 5. WORKING LOAD SHOULD BE 8 KN-22 KN. 6. WEIGHT SHOULD NOT EXCEED 500 GRAMS. 7. SHOULD BE SUITABLE FOR MULTI-PITCH CLIMBING APPLICATIONS. 8. SHOULD NOT TWIST ROPES DURING OPERATION. 9. SHOULD HAVE A MINIMUM OF 4 ALUMINIUM ALLOY BRAKE BARS. 10. SHOULD BE CE / EN / UIAA CERTIFIED.
8.	POWER QUICK ASCENDER	1. DESIGNED FOR EASY HANDLING AND PORTABILITY IN RESCUE AND MOUNTAIN ENVIRONMENTS. 2. SHOULD BE RUGGED, DURABLE, WITHSTANDING SHOCK, VIBRATION, AND ROUGH HANDLING DURING TRANSPORT AND DEPLOYMENT. 3. WEIGHT SHOULD BE LESS THAN 20 KG INCLUDING BATTERY. 4. EXTERNAL BATTERY PROVIDING MINIMUM 250 MTR CONTINUOUS DRIVE AT 200 KG LOAD PER CHARGE. 5. LED INDICATORS ON BATTERY FOR REAL-TIME MONITORING OF REMAINING POWER. 6. REMOVABLE BATTERY, DOCKABLE INTO CHARGER; CHARGING TIME <120 MINUTES. 7. MINIMUM 500 RECHARGE CYCLES, WITH INTERFACE SOFTWARE TO MONITOR BATTERY HEALTH. 8. LIFTING CAPACITY: MIN 200 KG; AUTOMATIC SHUTDOWN AT OVERLOAD > 280 KG. 9. WATERPROOF RATING: IP67, SUITABLE FOR MOUNTAIN, MARINE AND URBAN RESCUE OPERATIONS. 10. CAPABLE OF OPERATING IN SUB-ZERO COLD AND EXTREMELY HOT CLIMATES, WITH ELECTRONIC MONITORING FOR HEAT/COLD ADAPTATION. 11. ROPE COMPATIBILITY: 9-11 MM KERNMANTLE ROPES; FAST ROPE LOADING (<10 SECONDS) EVEN IN DARKNESS OR UNDERWATER. 12. REMOTE CONTROL SYSTEM WITH RANGE ≥ 150 M, ALLOWING SUPERVISORS TO OVERRIDE SPEED/DIRECTION DURING RESCUE OPERATIONS. 13. EMERGENCY MECHANICAL DESCEND CAPABILITY WITHOUT BATTERY POWER, ENSURING SAFE DESCENT IN CASE OF FAILURE. 14. INTEGRATED SAFETY SYSTEMS: TEMPERATURE SENSOR SHUTDOWN, AUTO-BRAKING IN HANDS-OFF POSITION, EMERGENCY STOP BUTTON, OVERLOAD LIMIT (>280 KG), ROPE VISIBILITY DURING OPERATION, FORWARD/REVERSE CONTROL. 15. ALL EXPENDABLES (BATTERY, ROPE-CONTACT PARTS) SHALL BE AVAILABLE IN INDIA TO ENSURE EASY REPLACEMENT AND SUPPLY CHAIN RELIABILITY.

S.N.	NAME OF EQUIPMENTS/CLOTHING ITEMS	QRS/SPECIFICATION
		16. CERTIFICATION: CE/EN /UIAA /BIS/ISI CERTIFIED. 17. WARRANTY: MINIMUM 2 YEARS.
9.	ROCK DRILL MACHINE BATTERY OPERATED	1. SHOULD BE COMPACT 2. SHOULD BE CONVENIENT FOR HARD SURFACE / MATERIAL, SUCH AS WOOD, ROCK WALL AND CONCRETE ETC 3. SHOULD HAVE POWERFULL AND EFFICIENT MOTOR TO FACILITATE LONG WORKING HOURS 4. SHOULD BE SUITABLE FOR PERFORMING HEAVY DUTY SMOOTHLY AND SAFELY 5. SHOULD PROVIDE AUTOMATIC BIT LOCKING SYSTEM 6. SHOULD HAVE FACILITY OF BATTERY AND ELECTRIC OPERATION 7. POWER NOT LESS THAN 800 WATT 8. MINIMUM 1 YEAR WARRANTY 9. WEIGHT OF MACHINE, SHOULD NOT BE MORE THAN 3 KG. 10. SHOULD BE DULY CERTIFIED- BIS/ISI
10.	MOUNTAINEERING TWO MEN TENT	1. TENT SHOULD BE EASY TO PITCH. 2. SHOULD HAVE TWO DOORS FOR EASY ACCESS. 3. SHOULD HAVE MINIMUM 04 ALUMINIUM TENT POLES TO WITHSTAND IN HARSH OUTDOOR CONDITIONS 4. TENT POLES DIA SHOULD BE MINIMUM 9.5 MM FOR STRENGTH AND LIGHTWEIGHT PERFORMANCE. 5. SHOULD HAVE A REMOVABLE VESTIBULE. 6. SHOULD HAVE TOP VENTS TO INCREASE BREATHABILITY AND STABILITY. 7. TENT SHOULD ACCOMMODATE TWO PERSONS COMFORTABLY. 8. SHOULD HAVE INTERNAL POCKETS FOR STORAGE OF EQUIPMENT. 9. FABRIC SHOULD BE DURABLE POLYESTER/NYLON/GORETEX WITH WATERPROOF COATING. 10. FLOOR FABRIC SHOULD BE HEAVY-DUTY, WATER-RESISTANT MATERIAL. 11. WEIGHT SHOULD NOT EXCEED 3.5 KG. 12. SHOULD INCLUDE A SEPARATE BAG FOR STAKES AND PEGS. 13. SHOULD HAVE A SEPARATE OUTER FLY. 14. MATERIAL SHOULD BE FREE FROM FIRE-RETARDANT CHEMICAL. 15. TENT SHOULD HAVE MOSQUITO MESH INNER DOORS. 16. DIMENSIONS: FLOOR AREA: ABOUT 30-35 SQ FT (2.8-3.3 SQ M) PEAK HEIGHT: APPROX. 40-45 INCHES (102-114 CM) PACKED SIZE: AROUND 21 x 6 INCHES (+10% TOLERANCE IN DIMENSIONS PERMITTED)
11.	MOUNTAINEERING THREE MEN TENT	1. TENT SHOULD BE EASY TO PITCH. 2. SHOULD HAVE TWO DOORS FOR EASY ACCESS. 3. SHOULD HAVE MINIMUM 04 ALUMINIUM TENT POLES TO WITHSTAND IN HARSH OUTDOOR CONDITIONS 4. TENT POLES DIA SHOULD BE MINIMUM 9.5 MM FOR STRENGTH AND LIGHTWEIGHT PERFORMANCE. 5. SHOULD HAVE A REMOVABLE VESTIBULE. 6. SHOULD HAVE TOP VENTS TO INCREASE BREATHABILITY AND STABILITY. 7. MATERIAL SHOULD BE FREE FROM FIRE-RETARDANT CHEMICAL.

S.N.	NAME OF EQUIPMENTS/C LOTHING ITEMS	QRS/SPECIFICATION
		8. TENT SHOULD ACCOMMODATE THREE PERSONS COMFORTABLY. 9. TENT SHOULD HAVE INTERNAL POCKETS FOR STORAGE OF EQUIPMENT. 10. FABRIC SHOULD BE DURABLE POLYESTER WITH WATERPROOF COATING. 11. FLOOR FABRIC SHOULD BE HEAVY-DUTY, WATER-RESISTANT MATERIAL. 12. WEIGHT SHOULD NOT EXCEED 4.5 KG. 13. TENT SHOULD INCLUDE A SEPARATE BAG FOR STAKES AND PEGS. 14. TENT SHOULD HAVE A SEPARATE OUTER FLY. 15. SHOULD HAVE MOSQUITO MESH INNER DOORS. 16. DIMENSIONS: FLOOR AREA: ABOUT 50–60 SQ FT (4.6–5.6 SQ M) PACKED SIZE: AROUND 21 × 7 INCHES PEAK HEIGHT: APPROX. 48–54 INCHES (122–137 CM) (+10% TOLERANCE IN DIMENSIONS PERMITTED)
12.	MOUNTAINEERING FOUR MEN TENT	1. TENT SHOULD BE EASY TO PITCH. 2. TENT SHOULD HAVE TWO DOORS FOR EASY ACCESS. 3. SHOULD HAVE MINIMUM 04 ALUMINIUM TENT POLES TO WITHSTAND IN HARSH OUTDOOR CONDITIONS 4. TENT POLES DIA SHOULD BE MINIMUM 11 MM FOR STRENGTH AND LIGHTWEIGHT PERFORMANCE. 5. TENT SHOULD HAVE A REMOVABLE VESTIBULE. 6. TENT SHOULD HAVE TOP VENTS TO INCREASE BREATHABILITY AND STABILITY. 7. TENT SHOULD ACCOMMODATE FOUR PERSONS COMFORTABLY. 8. TENT SHOULD HAVE INTERNAL POCKETS FOR ORGANIZING SMALL GEAR AND PERSONAL ITEMS. 9. FABRIC SHOULD BE DURABLE POLYESTER/NYLON/GORE-TEX WITH WATERPROOF COATING. 10. FLOOR FABRIC SHOULD BE HEAVY-DUTY, WATER-RESISTANT MATERIAL. 11. MATERIAL SHOULD BE FREE FROM FIRE-RETARDANT CHEMICAL. 12. WEIGHT SHOULD NOT EXCEED 6.0 KG. 13. TENT SHOULD INCLUDE A SEPARATE BAG FOR STAKES AND PEGS. 14. TENT SHOULD HAVE A SEPARATE OUTER FLY. 15. TENT POLES SHOULD BE ALUMINIUM POLES FOR STRENGTH AND LIGHTWEIGHT PERFORMANCE. 16. TENT SHOULD HAVE MOSQUITO MESH INNER DOOR 17. DIMENSIONS: • FLOOR AREA: AROUND 60–70 SQ FT (5.6-6.5 SQ M) • PEAK HEIGHT: APPROX. 52 INCHES (147 CM) • PACKED SIZE: ABOUT 23 × 6 INCHES • (+10% TOLERANCE IN DIMENSIONS PERMITTED)
13.	HIGH-ALTITUDE KITCHEN TENT	1. SIZE LENGTH, WIDTH, HEIGHT (11 X 8 X 8 FEET) WITH STORE SIZE 5X4X8 FEET 2. GROUND SHEET SHOULD BE MADE OF HIGH QUALITY CANVAS SHEET OR EQUIVALENT 3. SHOULD HAVE WINDOWS ON THE SIDE WALL 4. MOSQUITO NET ON THE SIDE WALL 5. FLAPS FOR CLOSING THE WINDOW 6. ENTRANCE SHOULD HAVE ZIPPER FACILITY 7. SHOULD BE 100% WATERPROOF

S.N.	NAME OF EQUIPMENTS/C LOTHING ITEMS	QRS/SPECIFICATION
		8. BEST QUALITY MESH NET BE USED FOR WINDOW AND GATE 9. SHOULD HAVE ALUMINIUM POLE / ACCESSORIES FOR ERECTING THE TENT 10. SHOULD HAVE FOUR LOOPS AT EQUAL DISTANCE FOR HANGING LIGHTS 11. SHOULD HAVE TWO WINDOWS ON EACH SIDE OF THE WALL 12. SHOULD HAVE FLAP TO COVER AND MOSQUITO MESH NET 13. FRONT /REAR GATE SHOULD HAVE ZIPPER AND MOSQUITO MESH NET FACILITY 14. SHOULD BE WATER RESISTANT AND WINDPROOF 15. INNER FABRIC SHOULD BE MADE OF HIGH QUALITY CANVAS (+10% TOLERANCE IN DIMENSIONS PERMITTED)
14.	HIGH-ALTITUDE DINNING TENT	1. SIZE LENGTH, WIDTH, HEIGHT (14 X 12 X 9 FEET) (SIDE WALL 3.5 FEET) 2. GROUND SHEET SHOULD BE MADE OF HIGH QUALITY SHEET 3. SHOULD HAVE WINDOWS ON THE SIDE WALL 4. MOSQUITO NET ON THE SIDE WALL 5. FLAPS FOR CLOSING THE WINDOW 6. ENTRANCE SHOULD HAVE ZIPPER FACILITY 7. SHOULD BE 100% WATERPROOF 8. BEST QUALITY MESH NET BE USED FOR WINDOW AND GATE 9. SHOULD HAVE ALUMINIUM POLE / ACCESSORIES FOR ENTERING THE TENT 10. SHOULD HAVE FOUR LOOPS AT EQUAL DISTANCE FOR HANGING 11. SHOULD HAVE FOUR WINDOWS ON EACH SIDE OF THE WALL 12. SHOULD HAVE FLAP TO COVER AND MOSQUITO MESH NET 13. FRONT/REAR GATE SHOULD HAVE ZIPPER AND MOSQUITO MESH NET FACILITY 14. OUTER FLY SHOULD BE MADE, OF HEAVY DUTY NYLON 15. SHOULD BE WATER RESISTANT AND WINDPROOF 16. INNER FABRIC SHOULD BE MADE OF HIGH QUALITY CANVAS (+10% TOLERANCE IN DIMENSIONS PERMITTED)
15.	PORTABLE LED OUTDOOR LIGHT TOWER	1. HYBRID SYSTEM: SHOULD OPERATE ON BUILT-IN BATTERY, AC POWER, AND GENERATOR SET. 2. SHOULD HAVE REMOVABLE LI-ION BATTERY; CHARGEABLE BOTH INSIDE THE UNIT AND EXTERNALLY. 3. CAPACITY: MINIMUM 40V / 25AH. 4. CONTINUOUS OUTPUT: $\geq 1200W$. 5. BACKUP: ≥ 4 HOURS AT FULL LOAD (360W, 51,000 LUMENS). 6. BATTERY LIFE: ≥ 3000 CYCLES. 7. LED LIGHTS: 6 UNITS $\times$ MIN. 60W = MIN.360W. 8. LIGHT OUTPUT: $\geq 50,000$ LUMENS. 9. COVERAGE: 360° ILLUMINATION IN ALL DIRECTIONS. 10. SHOCKPROOF BODY, SUITABLE FOR ALL-WEATHER USE. 11. PROTECTION: IP65/IP66/IP67 OR MORE (DUSTPROOF AND WATERPROOF). 12. TELESCOPIC TOWER: ALUMINIUM ALLOY, MINIMUM HEIGHT 4 M (4000 MM). 13. BASE PLATE: ALUMINIUM, POWDER-COATED. 14. BASE FRAME: SHOULD BE EQUIPPED WITH WHEELS FOR MOBILITY. 15. STABILITY: SHOULD BE DESIGNED TO WITHSTAND HIGH WIND VELOCITY. 16. TOTAL SYSTEM WEIGHT: <60 KG (WITH BUILT-IN BATTERY, WITHOUT ACCESSORIES). 17. SHOULD HAVE IN-BUILT AUTOMATIC COMPONENT TO UPLIFT THE TELESCOPIC TOWER/VERTICAL MASK. 18. SHOULD BE BIS/ISI CERTIFIED.

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		19. WARRANTY: MINIMUM 2 YEARS.
16.	SNOW HIKER	1. SHOULD BE COMFORTABLE AND EASY TO PUT ON. 2. EQUIPPED WITH ALUMINIUM ALLOY TEETH FOR STRONG GRIP ON SNOW. 3. SHOULD BE MADE OF HIGH QUALITY RIGID PLASTIC / STURDY ALUMINIUM / FORGED ALUMINIUM ALLOY MATERIAL. 4. SIZE RANGE: 20-29 INCHES. 5. WEIGHT NOT MORE THAN 3 KG. 6. LIGHTWEIGHT, DURABLE, AND WATER-RESISTANT CONSTRUCTION. 7. DESIGNED TO PROVIDE FLEXIBILITY AND EASE OF WALKING. 8. DOUBLE ADJUSTABLE BINDINGS WITH QUICK-RELEASE BUCKLES FOR FAST DONNING/DOFFING. 9. SHOULD HAVE BUCKLE SYSTEM TO FACILITATE QUICK AND SAFE BELT RELEASE. 10. SHOULD BE CE/ EN /UIAA CERTIFIED.
17.	WATER BOTTLE SPECIAL	1. CAPACITY: SHOULD NOT LESS THAN 1 LITRE (1000 ML). 2. WEIGHT: ≤ 200 GRAMS, LIGHTWEIGHT AND PORTABLE. 3. DURABILITY: COMPACT, IMPACT-RESISTANT, CRACK-RESISTANT IN SUB-ZERO TEMPERATURES. 4. SHOULD BE LEAK-PROOF WITH SECURE SCREW CAP. 5. SHOULD HAVE LOOP ON TOP ATTACHMENT WITH LID FOR EASY HANDLING. 6. CARRY OPTION: HOLSTER/COVER PROVIDED FOR SAFE TRANSPORT. 7. SHOULD HAVE WIDE MOUTH FOR EASY FILLING, CLEANING, AND SNOW MELTING. 8. MARKINGS: PERMANENT PRINTED SCALE WITH HIGH-CONTRAST, NON-PEEL VISIBILITY. 9. THERMAL PERFORMANCE: PREVENTS FREEZING OF WATER IN EXTREME COLD; SUITABLE FOR HOT LIQUIDS. 10. SHOULD BE DESIGNED FOR HIGH-ALTITUDE EXPEDITIONS
18.	ROPE LADDER 40 FEET	1. SHOULD BE MADE OF MINIMUM 3 MM GALVANIZED STEEL CABLE. 2. SHOULD HAVE ALUMINIUM STEPS 3. SHOULD HAVE NYLON COATED STRAPS. 4. WEIGHT OF THE LADDER SHOULD NOT BE MORE THAN 04 KG. 5. SHOULD HAVE 4 STEEL QUICK LINKS 4 EASY RIGING. 6. LOAD CARRYING CAPACITY MAX 400KG. 7. SHOULD BE LIGHT AND EASY TO CARRY/TRANSPORT 8. DISTANCE BETWEEN TWO STEPS SHOULD BE MIN 30 CM