





Qualitative Requirement and Specifications for LPG Bukhari

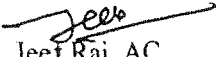
SL NO	DESCRIPTI ONS	SPECIFICATIONS
1	Heating Capacity	i. There should be different heat settings to allow user to control the temperature of the room easily and maintaining the consistent temperature precisely and accurately without undue wastage of LPG Electricity. ii. Heater should have a capacity to provide heating in a space for a group of 10 to 12 personnel i.e approximately 1000 sq feet area
2.	Weight	i. The weight should not be more than 10 kg including all accessories of heater and its base so as to facilitate easy transportation over difficult terrain also
3.	Operating duration	i. Heater should be preferably have 2-in-1 options with Electricity (220Volt -50 Hz) & Gas for flexible operation. ii. Heater should have the capacity to work up to 20 Hrs continuously (combined) in a day for various situations and in extreme cold weather (-20 c) or less
4.	Dimension	i. Maximum dimension of Heater Height x Width x Depth=75x40x30 cm with 04 smoothly moving castor wheels
5	Characteristi cs	i. Easy to operate which includes compact & detachable body. ii. It should give instant heat for warmth even in chilly winter evenings with integrated carrying handle which does not get hot. iii. Heat proof Painting, iv. Heating Mode:-fast heating, energy saving & Non-polluting. v. Should be safe for use in tents also vi. Completely portable vii. Robust build quality with aesthetic design.
6	Source of operating	i. It should have built-in easy start Electric ignition switch. ii. Power conversion switch must be made up of superior quality which is heat resistant
7	Output	i. It should provide heat up to 1000 sq.ft area. ii. It should provide up to 15000 to 18000 BTU's (British Thermal Units) or 4500 to 5000 watts heat output.
8	Uses	i. Indoor and Outdoor use: for use in permanent building, Semi-permanent structures, tents and short term outdoor uses like Expdn./Exercise/LRP/out duties etc. ii. It may have option to use for cooking purpose also.



R. N. Singh
DIG (L&C)

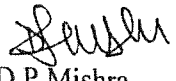

Mahender Singh, DC
(REP OF BSF)

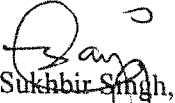

Mithanshu Chaudhary, AC
(REP OF CRPF)



R.K. Singh, AC
(REP OF CISF)


Jeet Raj, AC
(REP OF SSB)



Devesh Kumar, TC
(Rep of NSG)



D.P. Mishra
(Rep of Assam Rifle)



Sukhbir Singh,
(2 I/C Proc, ITBP)

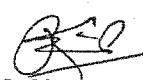

Sachin Mittal
(Comdt Int, ITBP)


	Structure/Design	<ul style="list-style-type: none">i. Easy to operate, compact & detachable body, safe & convenient, low maintenance and longer service life.ii. Inbuilt flame, Failure protection with Oxygen Depletion Sensor (ODS) & Safety device.iii. Multifunctional use: High quality minimum 03 Nos of Ceramic tiles/Plates;iv. Voltage: 220-240v for electricityv. Low gas consumption (0.1KG/H , 0.2KG/H)vi. Outer body should be cold rolled steel body or equivalent material having sufficient thickness for long life.vii. It should be suitable for the use with standard 5kg, 14.2kg and 19kg cylinder for gas operation & as well as an option to operate by electricity also.viii. 3 pin plug and others accessories must be heat resistant and made of rubber/pvc plastic/polycarbonate/fiber glass to make it resistant to breaks.ix. Three power setting with max, power 4200 watt for LPG & 1500 watt for electricx. All electric wire must be heat & fire proof and properly insulated
10	Protection	<ul style="list-style-type: none">i. Suitable overheat protection features to ensure that it never gets too hot and hence is safe for men and materialsii. Should be corrosion resistant and rust proofiii. Fire proof/resistant with near 100% safety standardsiv. Base plate should be heat proof and of a material which is bad conductor of electricity



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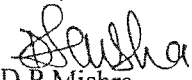

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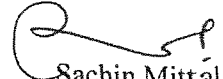

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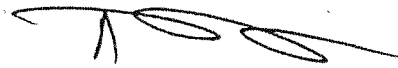

Jeet Raj, AC
(REP OF SSB)


Devesh Kumar, TC
(Rep of NSG)

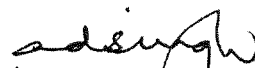

D.P. Mishra
(Rep of Assam Rifle)


Sukhbir Singh,
(2 I/C Proc, ITBP)


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(Anand Swaroop, IPS)
ADG (HQ)
Dte Gen ITB Police


Approved/ ~~Not approved~~



(Anish Dayal Singh, IPS)
Director General, ITBPF


Trial Directive for LPG Bukhari


SL NO	DESCRIPTIONS	SPECIFICATIONS	Trial Methodology
1	Heating Capacity	i. There should be different heat settings to allow user to control the temperature of the room easily and maintaining the consistent temperature precisely and accurately without undue wastage of LPG Electricity. ii. Heater should have a capacity to provide heating in a space for a group of 10 to 12 personnel i.e approximately 1000 sq feet area	To be physically checked by BOO
2.	Weight	The weight should not be more than 10 kg including all accessories of heater and its base so as to facilitate easy transportation over difficult terrain also	To be physically checked by BOO
3.	Operating duration	i. Heater should be preferably have 2-in-1 options with Electricity (220Volt -50 Hz) & Gas for flexible operation. ii. Heater should have the capacity to work up to 20 Hrs continuously (combined) in a day for various situations and in extreme cold weather (-20 c) or less	To be physically checked by BOO
4.	Dimension	Maximum dimension of Heater H x W x D=75x40x30 cm plus minus 10% in with 04 smoothly moving castor wheels	To be physically checked by BOO
5	Characteristics	i. Easy to operate which includes compact & detachable body. ii. It should give instant heat for warmth even in chilly winter evenings with integrated carrying handle which does not get hot. iii. Heat proof Painting, iv. Heating Mode:-fast heating, energy saving & Non-polluting. v. Should be safe for use in tents also vi. Completely portable vii. Robust build quality with aesthetic design.	To be physically checked by BOO



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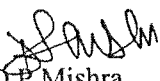

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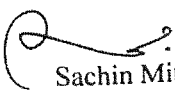

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

Sukhbir Singh,
(2 I/C Proc, ITBP)

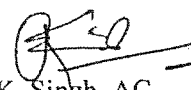

Sachin Mittal
(Comdt Int, ITBP)

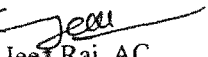
6	Source of operating	<ul style="list-style-type: none"> i. It should have built-in easy start Electric ignition switch. ii. Power conversion switch must be made up of superior quality which is heat resistant 	To be physically checked by BOO
7	Output	<ul style="list-style-type: none"> i. It should provide heat up to 1000 sq.ft area. ii. It should provide up to 15000 to 18000 BTU's (British Thermal Units) or 4500 to 5000 watts heat output. 	To be physically checked by BOO. Firm to produce OEM/NABL/ National/ International accredited Lab
8	Uses	<ul style="list-style-type: none"> i. Indoor and Outdoor use: for use in permanent building, Semi-permanent structures, tents and short term outdoor uses like Expdn./Exercise/LRP/out duties etc. ii. It may have option to use for cooking purpose also. 	To be physically checked by BOO
9	Structure/Design	<ul style="list-style-type: none"> i. Easy to operate, compact & detachable body, safe & convenient, low maintenance and longer service life. ii. Inbuilt flame, Failure protection with Oxygen Depletion Sensor (ODS) & Safety device. iii. Multifunctional use: High quality minimum 03 Nos of Ceramic tiles/Plates; iv. Voltage: 220-240v for electricity v. Low gas consumption (0.1KG/H , 0.2KG/H) vi. Outer body should be cold rolled steel body or equivalent material having sufficient thickness for long life. vii. It should be suitable for the use with standard 3kg, 14.2kg and 19kg cylinder for gas operation & as well as an option to operate by electricity also. viii. 3 pin 16 Amp plug and others accessories must be heat resistant and made of rubber/pvc plastic/polycarbonate/fiber glass to make it resistant to breaks. ix. Three power setting with max, power 4200 watt for LPG & 1500 watt for electric x. All electric wire must be heat & fire proof and properly insulated 	To be physically checked by BOO



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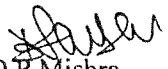

Mahender Singh, DC
(REP OF BSF)

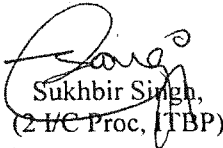

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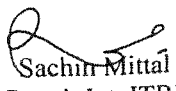

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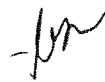

Sukhbir Singh,
(2 IC Proc, ITBP)


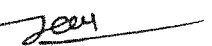

Sachin Mittal
(Comdt Int, ITBP)


10	Protection	i. Suitable overheat protection features to ensure that it never gets too hot and hence is safe for men and materials ii. Should be corrosion resistant and rust proof iii. Fire proof/resistant with near 100% safety standards iv. Base plate should be heat proof and of a material which is bad conductor of electricity	To be physically checked by BOO. Firm to produce OEM/NABL/ National/ International accredited Lab
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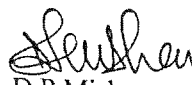

R. N. Singh
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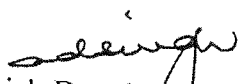

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Dte Gen ITB Police

Approved/ ~~Not approved~~


(Anish Dayal Singh, IPS)
Director General, ITBPF

