

**BHARAT HEAVY ELECTRICAL LIMITED****UNIT'S ADDRESS:****UNIT'S PHONE NOS.****CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL (FROM PURCHASE DEPTT)**Enquiry No. :
Due Date :
Supplier Qtn. No.:

Date :

SPECIFICATION CUM COMPLIANCE CERTIFICATE FOR WALL MOUNTED BRACKET TYPE MAN COOLERS, ITEM NO:01 (INDUSTRIAL COOLING FANS)**NOTE:-**

1. The "Offered" Column and where applicable, the "Deviations" & "Remarks" Column of this format shall be filled in by the Vendor and submitted along with the offer.
Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance.

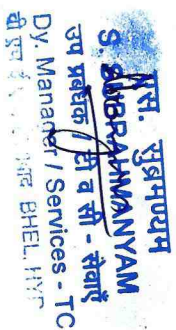
2. The offer and all documents enclosed with offer should be in English language only.

ADDRESS OF THE SUPPLIER :		ADDRESS OF THE INDIAN AGENTS :			
TELEPHONE NOS.:		TELEPHONE NOS.:			
FAX NOS.:		FAX NOS.:			
E-MAIL ADDRESS :		E-MAIL ADDRESS :			
SCOPE: SUPPLY OF MAN COOLERS (INDUSTRIAL COOLING FANS) COMPLYING WITH SPECIFICATION AS BELOW					
SL.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
1.0	PURPOSE	For providing ventilation by blowing air towards the persons working on the shop floor.			
2.0	SPECIFICATION OF THE EQUIPMENT / CONFIGURATION :				
2.1	Type of Man Cooler	Industrial Wall mounted bracket type. Design, Manufacture & Performance shall be as per IS:6272 standard.			
2.2	Size of Man Cooler	36" (900 mm)			
2.3	Total Air delivery : min. 56000 cu.mtr/hour at 10 times of blade sweep	Vendor to confirm			

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Dy. Manager/ Services - TC
टी व सी - सेवा, हैदराबाद BHEL, HYD-32

एच. शंकर सिंह
L. SHANKAR SINGH
व्य. प्रबंधक / टी व सी - उत्पादन
Sr. Dy. General Manager/TC-Production
टी व सी - उत्पादन, हैदराबाद BHEL, HYD-32

SL.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
2.4	Min. peak air velocity 250 mtr/min at a distance of 10 times of blade sweep.	Vendor to confirm			
2.5	A trunnion or swivel arrangement or both, should be incorporated in the mounting so that the direction of the air flow can be altered to suit the requirements. The minimum angle through which it is possible to rotate the fan horizontally as well as vertically without changing the position of the fan shall be 7° vertically and 45° horizontally	Vendor to confirm			
2.7	Motor rating :	TEFC three phase, 2HP, 920RPM, 415V, 50Hz, Foot & flange mounting energy efficient squirrel cage induction motor.			
2.8	Noise level	Should be less than 80 db at a distance of 3 mtrs. away the Man cooler.			
2.9	Material of construction :				
2.9.1	Casing	Vendor to specify			
2.9.2	Impeller / fan (Cost Aluminium, aero foil)	Vendor to specify			
2.9.3	Dynamic balancing of impeller shall be as per ISO 1940-6.3	Vendor to Confirm			
2.9.4	The impeller shall be totally covered by heavy wire guard on both sides (Bird screen).	Vendor to Confirm			
2.9.5	Motor should be of make Siemens / ABB / NGEF / GEC / Kirloskar/LHP.	Vendor to Confirm			
2.9.6	Two nos of DOL starter shall be supplied suitable to the above motor.	Vendor to Confirm			
2.9.7	DOL starter should be of make Siemens / L&T / GEC / BCH	Vendor to Confirm			
2.9.8	Hook for cable handling shall be provided.	Vendor to Confirm			
3.0	GENERAL & SAFETY REQUIREMENTS :				
3.1	All the safety requirements / features (i.e. Protection against electrical shock, Electrical insulation, Insulating materials, Temperature rise, Finish, Interchangeability of parts, Silent operation etc.) shall be as per IS:6272 Standard (Latest revision).	Vendor to confirm			


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 श्री. ए. ई. एल. हैदराबाद BHEL, HYD-32

SL.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
4.0	DOCUMENTATION : Three sets of the following documents (Hard copies) in English language should be supplied along with the equipment				
4.1	Operating manuals of the equipment	Vendor to confirm			
4.2	Catalogues, O&M Manuals of all bought out items including drawings, wherever applicable.	Vendor to confirm			
4.3	Test certificates of all the bought out items.	Vendor to confirm			
5.0	Equipment ACCEPTANCE: (Tests/Activities to be Performed by Vendor)				
5.1	Tests/Activities to be carried out at supplier's works on the equipment before dispatch shall be as per IS:6272 Standard :	Vendor to confirm.			
5.1.1	Demonstration of all features of the equipment.	Vendor to confirm			
5.1.2	Successful prove out of the equipment as per clause No. 2.1, 2.3 & 2.4	Vendor to confirm			
6.0	WARRANTY:				
6.1	Warranty of the equipment shall be as per commercial terms & conditions.	Vendor to Confirm			
7.0	GENERAL :				
7.1	Equipment Model No.	Vendor to specify			
7.2	Make (Shall be of reputed make).	Vendor to specify			
7.3	Overall size of the equipment (Length, Width, Height).	Vendor to specify			
7.4	Self weight / Total weight of the equipment	Vendor to specify			
7.5	Vendor to submit, along with offer, reference list of customers where similar equipment have been supplied mentioning broad specifications of the supplied equipment & Model No. etc.	Vendor to Confirm			
7.6	Detailed catalogues, photographs of the equipment and accessories should be submitted with the offer.	Required			
8.0	Delivery period of the equipment	Vendor to specify			

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BHARAT HEAVY ELECTRICAL LIMITED

UNIT'S ADDRESS:
UNIT'S PHONE NOS.

CONTACT PERSON'S NAME/DESIGN./PHONE NO./E-MAIL (FROM PURCHASE DEPTT.)

Enquiry No. :
Due Date :
Supplier Qtn. No.:
Date :

SPECIFICATION CUM COMPLIANCE CERTIFICATE FOR PEDASTAL TYPE MAN COOLERS, ITEM NO:02 (INDUSTRIAL COOLING FANS)

NOTE:-

1. The "Offered" Column and where applicable, the "Deviations" & "Remarks" Column of this format shall be filled in by the Vendor and submitted along with the offer.
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2. The offer and all documents enclosed with offer should be in English language only.

ADDRESS OF THE SUPPLIER :		ADDRESS OF THE INDIAN AGENTS :			
TELEPHONE NOS.:		TELEPHONE NOS.:			
FAX NOS.:		FAX NOS.:			
E-MAIL ADDRESS :		E-MAIL ADDRESS :			
SCOPE: SUPPLY OF MAN COOLERS (INDUSTRIAL COOLING FANS) COMPLYING WITH SPECIFICATION AS BELOW					
SL.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
1.0	PURPOSE	For providing ventilation by blowing air towards the persons working on the shop floor.			
2.0	SPECIFICATION OF THE EQUIPMENT / CONFIGURATION :				
2.1	Type of Man Cooler	Industrial Pedastal type. Design, Manufacture & Performance shall be as per IS:6272 standard.			
2.2	Size of Man Cooler	30" (750 mm)			
2.3	Total Air delivery : min. 37500 cu.mtr/hour at 10 times of blade sweep	Vendor to confirm			

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एम्. शंकर सिंह
L. SHANKAR SINGH
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Sr. Dy. General Manager / TC - Production
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Sl. NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
2.4	Min. peak air velocity 250 mtr/min at a distance of 10 times of blade sweep.	Vendor to confirm			
2.5	A trunion or swivel arrangement or both, should be incorporated in the mounting so that the direction of the air flow can be altered to suit the requirements. The minimum angle through which it is possible to rotate the fan horizontally as well as vertically without changing the position of the fan shall be 7° vertically and 45° horizontally	Vendor to confirm			
2.6	Motor rating :	TEFC three phase, 2HP, 1440RPM, 415V, 50Hz energy efficient squirrel cage induction motor.			
2.7	Noise level	Should be less than 80 db at a distance of 3 mtrs. away the Man cooler.			
2.8	Material of construction :				
2.8.1	Casing	Vendor to specify			
2.8.2	Impeller / fan (Cost Aluminium, aero foil)	Vendor to specify			
2.8.3	Dynamic balancing of impeller shall be as per ISO 1940-6.3	Vendor to Confirm			
2.8.4	The impeller shall be totally covered by heavy wire guard on both sides (Bird screen).	Vendor to Confirm			
2.8.5	Motor should be of make Siemens / ABB / NGEF / GEC / Kirloskar/LHP.	Vendor to Confirm			
2.8.6	Two nos of DOL starter shall be supplied suitable to the above motor.	Vendor to Confirm			
2.8.7	DOL starter should be of make Siemens / L&T / GEC / BCH	Vendor to Confirm			
2.8.8	Hook for cable handling shall be provided.	Vendor to Confirm			
3.0	GENERAL & SAFETY REQUIREMENTS :				
3.1	All the safety requirements / features (i.e. Protection against electrical shock, Electrical insulation, Insulating materials, Temperature rise, Finish, Interchangeability of parts, Silent operation etc.) shall be as per IS:6272 Standard (Latest revision).	Vendor to confirm			

५५. सुब्रह्मण्यम्
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 Dy. Manager / Services - TC
 HYD-32
 BHEL

५५. शंकर सिंह
 SHANKAR SINGH
 Sr. Dy. General Manager / TC - Production
 HYD-32

SL.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
4.0	DOCUMENTATION : Three sets of the following documents (Hard copies) in English language should be supplied along with the equipment				
4.1	Operating manuals of the equipment	Vendor to confirm			
4.2	Catalogues, O&M Manuals of all bought out items including drawings, wherever applicable.	Vendor to confirm			
4.3	Test certificates of all the bought out items.	Vendor to confirm			
5.0	Equipment ACCEPTANCE: (Tests/Activities to be Performed by Vendor)				
5.1	Tests/Activities to be carried out at supplier's works on the equipment before dispatch shall be as per IS:6272 Standard :	Vendor to confirm.			
5.1.1	Demonstration of all features of the equipment.	Vendor to confirm			
5.1.2	Successful prove out of the equipment as per clause No. 2.1, 2.3 & 2.4	Vendor to confirm			
6.0	WARRANTY:				
6.1	Warranty of the equipment shall be as per commercial terms & conditions.	Vendor to Confirm			
7.0	GENERAL :				
7.1	Equipment Model No.	Vendor to specify			
7.2	Make (Shall be of reputed make) .	Vendor to specify			
7.3	Overall size of the equipment (Length, Width, Height).	Vendor to specify			
7.4	Self weight / Total weight of the equipment	Vendor to specify			
7.5	Vendor to submit, along with offer, reference list of customers where similar equipment have been supplied mentioning broad specifications of the supplied equipment & Model No. etc.	Vendor to Confirm			
7.6	Detailed catalogues , photographs of the equipment and accessories should be submitted with the offer.	Required			
8.0	Delivery period of the equipment	Vendor to specify			

सुभाषचंद्र
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**BHARAT HEAVY ELECTRICAL LIMITED****UNIT'S ADDRESS:****UNIT'S PHONE NOS.****CONTACT PERSON'S NAME/DESIGN/PHONE NO./E-MAIL (FROM PURCHASE DEPTT.)**

Enquiry No.:

Due Date:

Supplier Qtn. No.:

Date:

SPECIFICATION CUM COMPLIANCE CERTIFICATE FOR TUBULAR TYPE MAN COOLERS, ITEM NO:03 (INDUSTRIAL COOLING FANS)**NOTE:-**

1. The "Offered" Column and where applicable, the "Deviations" & "Remarks" Column of this format shall be filled in by the Vendor and submitted along with the offer. Inadequate / incomplete, ambiguous, or unsustainable information against any of the clauses of the specifications/requirements shall be treated as non-compliance.

2. The offer and all documents enclosed with offer should be in English language only.

ADDRESS OF THE SUPPLIER :		ADDRESS OF THE INDIAN AGENTS :			
TELEPHONE NOS.:		TELEPHONE NOS.:			
FAX NOS.:		FAX NOS.:			
E-MAIL ADDRESS :		E-MAIL ADDRESS :			
SCOPE: SUPPLY OF MAN COOLERS (INDUSTRIAL COOLING FANS) COMPLYING WITH SPECIFICATION AS BELOW					
SL.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
1.0	PURPOSE	For providing ventilation by blowing air towards the persons working on the shop floor.			
2.0	SPECIFICATION OF THE EQUIPMENT / CONFIGURATION :				
2.1	Type of Man Cooler	Industrial Tubular type. Design, Manufacture & Performance shall be as per IS:6272 standard.			
2.2	Size of Man Cooler	30" (750 mm)			
2.3	Total Air delivery : min. 37500 cu.mtr/hour at 10 times of blade sweep	Vendor to confirm			

उप. प्रभुदत्त
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Dy. Manager / Services - TC
भारत भारती, बल्लार, BHEL, HYD-32

एच. शंकर सिंह
L. SHANKAR SINGH
वरिष्ठ उप प्रबंधक / टी वी सी - उत्पादन
Sr. Dy. General Manager / TC - Production

S/L NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
2.4	Min. peak air velocity 250 mtr/min at a distance of 10 times of blade sweep.	Vendor to confirm			
2.5	A trunnion or swivel arrangement or both, should be incorporated in the mounting so that the direction of the air flow can be altered to suit the requirements. The minimum angle through which it is possible to rotate the fan horizontally as well as vertically without changing the position of the fan shall be 7° vertically and 45° horizontally	Vendor to confirm			
2.6	Motor rating :	TEFC three phase, 2HP, 1440RPM, 415V, 50Hz energy efficient squirrel cage induction motor.			
2.7	Noise level	Should be less than 80 db at a distance of 3 mtrs. away the Man cooler.			
2.8	Material of construction :				
2.8.1	Casing	Vendor to specify			
2.8.2	Impeller / fan (Cost Aluminium, aero foil)	Vendor to specify			
2.8.3	Dynamic balancing of impeller shall be as per ISO 1940-6.3	Vendor to Confirm			
2.8.4	The impeller shall be totally covered by heavy wire(min. dia=4mm) guard on both sides (Bird screen).	Vendor to Confirm			
2.8.5	Motor should be of make Siemens / ABB / NGEF / GEC / Kirloskar/LHP.	Vendor to Confirm			
2.8.6	Two nos of DOL starter shall be supplied suitable to the above motor.	Vendor to Confirm			
2.8.7	DOL starter should be of make Siemens / L&T / GEC / BCH	Vendor to Confirm			
2.8.8	Hook for cable handling shall be provided.	Vendor to Confirm			
3.0	GENERAL & SAFETY REQUIREMENTS :				
3.1	All the safety requirements / features (i.e. Protection against electrical shock, Electrical insulation, Insulating materials, Temperature rise, Finish, Interchangeability of parts, Silent operation etc.) shall be as per IS:6272 Standard (Latest revision).	Vendor to confirm			

Dr. S. SUBRAHMANYAM
Dy. Manager / Services - TC
BHEL, HYD-32

Dr. L. SHANKAR SINGH
Sr. Dy. General Manager / TC - Production
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Sl.NO.	DESCRIPTION FOR BHEL REQUIREMENT	SPECIFIED / TO BE CONFIRMED BY	OFFERED	DEVIATIONS	REMARKS
4.0	DOCUMENTATION : Three sets of the following documents (Hard copies) in English language should be supplied along with the equipment				
4.1	Operating manuals of the equipment	Vendor to confirm			
4.2	Catalogues, O&M Manuals of all bought out items including drawings, wherever applicable.	Vendor to confirm			
4.3	Test certificates of all the bought out items.	Vendor to confirm			
5.0	Equipment ACCEPTANCE: (Tests/Activities to be Performed by Vendor)				
5.1	Tests/Activities to be carried out at supplier's works on the equipment before dispatch shall be as per IS:6272 Standard :	Vendor to confirm.			
5.1.1	Demonstration of all features of the equipment.	Vendor to confirm			
5.1.2	Successful prove out of the equipment as per clause No. 2.1, 2.3 & 2.4	Vendor to confirm			
6.0	WARRANTY:				
6.1	Warranty of the equipment shall be as per commercial terms & conditions.	Vendor to Confirm			
7.0	GENERAL :				
7.1	Equipment Model No.	Vendor to specify			
7.2	Make (Shall be of reputed make) .	Vendor to specify			
7.3	Overall size of the equipment (Length, Width, Height).	Vendor to specify			
7.4	Self weight / Total weight of the equipment	Vendor to specify			
7.5	Vendor to submit, along with offer, reference list of customers where similar equipment have been supplied mentioning broad specifications of the supplied equipment & Model No. etc.	Vendor to Confirm			
7.6	Detailed catalogues , photographs of the equipment and accessories should be submitted with the offer.	Required			
8.0	Delivery period of the equipment	Vendor to specify			

एस. शंकर सिंह
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