



SPECIAL TERMS AND CONDITIONS

Tender enquiry no. **1920-097E** dated **20.11.2019** Due date **05.12.2019**
ITEM: **Limit Switches**

Tender Enquiry No.	1920-097E
Enquiry Date	20.11.2019
Last time and date of tender submission	1500 Hrs 05.12.2019
Tender Opening Time and date	1530 Hrs 05.12.2019
Quotation Parts	Two-part Bid
Item Description	Limit Switches
Item Specification	As per attached documents
Delivery schedule	As mentioned below in tender term S5
Validity of offer (In days)	90 days

Documents required along with supply of material	
1. Test Certificate / Compliance certificate	<u>Required</u>
2. Guarantee certificate	<u>Required</u>

PRE-QUALIFICATION CRITERIA

P1. Bidders should primarily be engaged in manufacturing or supply of same/similar type of Limit Switches. Supplier need to submit any customer's Purchase Order(s) (Not older than Dt. 01.10.2016) copy(s) of same/similar type of Limit Switches, having cumulative value not less of Rs. 2,00,000.00 (Two Lakh).

For MSEs, the required cumulative value of PO shall be Rs. 1,00,000.00 (One Lakh). For Claiming MSE benefits, bidder have to give documentary evidence like NSIC, UAN, etc.

This Pre-Qualification terms shall not be applicable to Start-Up Firms. These relaxations and exemptions are in line with D.O. No. 5(4)/2016-BE-I dated 15.02.2017. For claiming Start-Up exemption, vendors have to submit DPIIT (Dept. of Promotion of Industry and Internal Trade)/DIPP (Department for Industrial Policy and Promotion) recognition certificates.

P2. For manufacturers:

Procurement shall be preferred from manufacturers. In case manufacturer insists on engaging a dealer / agent, such dealer / agent is not allowed to represent more than one manufacturer for same item.



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For dealers:

In case of dealers / agents, valid authorized dealer certificate is required from original manufacturer. In case bids are received from dealer / agent and manufacturer both, bid submitted by dealer will be rejected. A dealer representing more than one manufacturer for same item will be rejected. Kindly quote for single make only.

SPECIAL TERMS

S1. QUOTATION SUBMISSION

This tender is through e-procurement mode for supply of “**Limit Switches**” as per specifications mentioned in below tender terms. Please refer clause no. G1.2, regarding instructions to bidder for submission of offer for e-procurement tender

S2. SCOPE OF SUPPLY

In addition to the clause no. G5 in “General Contract Conditions of tender”, All the items are to be supplied as per below mentioned drawing / TSB / standards. Quantity mentioned in the annexure is tentative:

Sl. no.	Material Code	Description	Enquiry quantity, nos.	Drawing no.	BHEL specification no.
10	963532820000	LIMIT SWITCH-WB-HD-TUA	1500	42000100656/01	SPEC:SB:0001/02
20	963720630000	LIMIT SWITCH-RB-2NO+2NC	1500	42020101344/03	TSB018/05
30	963720640000	LIMIT SWITCH-RB-1NO+1NC	800	42020101344/03	TSB018/05
40	963721410000	LIMIT SWITCH-HM	1000	4V000009930/02	VL:STDC:021/00

S3. SAMPLE REQUIREMENT

Those bidders, who have not supplied the respective Limit Switches (mentioned in above table) to BHEL Goindwal Sahib earlier, will have to provide 02 samples for technical evaluation during Part-I (techno-commercial) evaluation of tender.



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S4. VALIDITY OF RATE CONTRACT:

This annual Rate contract for supply of “Limit Switches” shall be valid for 01 (one) year for ordering from the date of rate contract finalization. Rate contract may be extended for another one year time period on mutual acceptance of both parties.

S5. DELIVERY SCHEDULE

Order(s) will be placed on successful bidders and staggered delivery is required during the validity period of rate contract. Quantity mentioned in the annexure is tentative. BHEL will place PO based on actual requirement from time to time. Item wise minimum order quantity and delivery schedule is tabulated below:

Sl. no.	Material Code	Description	Minimum Order Quantity , nos.	Delivery required
10	963532820000	LIMIT SWITCH-WB-HD-TUA	100	Within 2 months from date of purchase order / LOI
20	963720630000	LIMIT SWITCH-RB-2NO+2NC	100	
30	963720640000	LIMIT SWITCH-RB-1NO+1NC	100	
40	963721410000	LIMIT SWITCH-HM	100	

However, if vendor is having pending order for same type of Limit Switch, clause for minimum order quantity will not be adhered and further ordering can be done for lesser quantity also.

S6. LOADING CRITERIA CUM COUNTER OFFER

Rate Contract will be entered into requisite number of vendors to ensure that our requirement is met. For this, BHEL reserves the right to give counter offers to other than L1 vendor except highest bidder.

1. Tender quantity shall be divided in the proportion 60:15:25 (60% for L1, 20% for L2 and 25% for MSE's) in case the L1 vendor is not a MSE subject to following conditions:
 - I. L2 acceptance of L1 rates.
 - II. In tender, participating Micro and Small Enterprises quoting price within price band of L1+15 per cent shall also be offered 25% quantity of tender quantity at L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise. In case of more than one such Micro and Small Enterprise, the supply shall be shared equally. If there are more than one MSE in the price band of L1+ 15% to whom the offer has been sent and some of them reject the offer, then the remaining quantity shall be distributed equally to the MSEs accepting L1 prices.



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- III. 25% from the 25% quantity (i.e. 6.25% of the tender quantity) offered to the MSE's shall be reserved for MSE's owned by SC/STs. In event of failure of such Micro and Small Enterprises to participate in tender process or meet tender requirements and L1 price, 6.25 per cent quantity for Micro and Small Enterprises owned by SC/ST entrepreneurs shall be met from other Micro and Small Enterprises. 3% from within the 25% quantity offered to the MSE's will be offered to women owned MSE's. Failure to participate by any MSE owned by women; this 3% quantity shall be offered to other MSE's.
 - IV. In case any MSE vendor does not accept the counter offer, the above mentioned 25% quantity shall be offered to L2.
 - V. If there is no MSE in the Price band of L1+15% then the 25% quantity shall be offered to L2 vendor.
 - VI. If other suppliers (other than L1) are not under MSE then 60% quantity shall be given to L1 and 40% quantity shall be offered to L2 supplier.
2. In case if the L1 vendor is MSE then quantity shall be provided as 60 % for L1, 30.75% for L2, 6.25% tender quantity shall be offered to the MSEs owned by SC/ST's in the price band of L1+15% and 3% quantity shall be offered to the MSEs owned by women entrepreneur. In event of failure of such Micro and Small Enterprises to participate in tender process or meet tender requirements and L1 price, 6.25 per cent sub-target for procurement earmarked for Micro and Small Enterprises owned by SC/ST entrepreneurs and 3 per cent sub-target for procurement earmarked for Micro and Small Enterprises owned by women entrepreneurs shall be met from L2 vendor.
 3. In case the L1 vendor is MSE owned by SC/ST Women entrepreneur then quantity shall be provided as 60 % to L1 and 40% to L2.

All above offered quantity are subject to acceptance of L1 rates.

BHEL will give counter-offer to vendors (except highest bidder) other than L2 only if L2 does not accept the counter-offer.

In case of non- acceptance of counter offer by any vendor after above applicable provisions the whole quantity would be offered to L1 vendor. All above mentioned preferences shall be given to MSEs and SC/STs only on the submission of documentary evidence in the Techno-Commercial part only.

Wherever number of qualified bidders are three or more, BHEL will not give counter offer to highest bidder in any case (except MSE Vendors whose rates falling in the range of L1 +15%). In case number of qualified bidders are two only, then BHEL may give counter offer to highest bidder also.

Above indicated criteria is liable to be monitored/controlled/regulated by BHEL from the first ordering itself/subsequent ordering based on commitment given by L1 vendor/other vendors, past performance, quality of items etc.

Once the rate contract is in place with various vendors based on acceptance of counter offer, while placing regular Purchase orders, BHEL will place orders for required quantity based on BHEL delivery



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requirement, pending POs at any time with vendor and vendor's delivery records and quality. Performance of vendors shall be monitored.

S7. OTHER CONTRACT CONDITIONS

These Special terms & conditions and GCC collectively are the part of tender terms and conditions.

Documents submitted with the offer shall be signed and stamped in each page by authorized representative of the bidder.

G1. INSTRUCTION TO BIDDER

Quotations shall be submitted before due date and time. Late offers are liable to be rejected, so please ensure to submit bid well within due date and time. Techno-commercial part will be opened on due date.

Based on evaluation of techno-commercial offers, Price bids of bidders who qualify from techno-commercial evaluation shall be opened. BHEL may decide to open the Price bid same day at 1700 hrs. If not opened on the same day, all qualifying bidders shall be notified for date of opening of Price bids by email/fax/post/courier/E-procurement system generated email.

G1.1 INSTRUCTION TO BIDDER (In case of Non-E-Procurement / Paper/ Manual/ Hard Copy based tenders)

Sealed Tenders can be dropped in the tender box labeled as 'Tender box for MM contracts'. This tender box is located at the entrance of Admin block BHEL Goindwal. Fax (01859-222061) / E-Mail (tendermm_ivp@bhel.in) offers received in time shall be considered only when such offers are complete in all respects. In case of bulky tender please handover quotation to Sh Rakesh Kumar/ SDGM/Head-MM or Sh Gurcharan Singh / AGM-Operations & MM. [Contact: 01859 224 615/631]. Bid can be send to following address:

**BHEL, Industrial Valve Plant,
#433, Industrial Complex,
Goindwal Sahib, Distt. Tarn Taran,
Punjab-143422.**

G1.2 INSTRUCTION TO BIDDER (In case of E-Procurement)

Interested bidders/Suppliers shall submit their offer through e-Procurement mode at <https://bhel.abcpurchase.com>. Offers in any other mode will not be accepted.

For Enterprise Procurement System (EPS) Bidders/Suppliers are requested to follow these steps:

a. Requirements

1. Computer with good Internet Connection.
2. Operating System should be Windows Vista / Windows 7 and above.
3. Web Browsers: Internet Explorer 9.0 (32-bit Browser only) & above

b. Mandatory Requirements:

Suppliers interested for registration for BHEL Open Tenders should have a valid DSC (Digital Signature Certificate) before Proceeding forward for Registration. Herein a Valid DSC refers to a Class-II/III Digital Signature Certificate (DSC) for Signing & Encryption (Required both digital signature certificate: Signing & Encryption) of bids issued by any of the valid Certifying Authorities (approved by Controller of Certifying Authorities) in India. Valid Digital Signature Certificate (DSC) must be installed in a computer system from where you want to access the website.

For Unregistered Suppliers in EPS:

Procedure for Online Registration in EPS for Open Tender Suppliers for BHEL. Please follow the below steps for registration: -

1. Click Register Button (Top of the Screen).



General Contract Conditions (GCC) of MM Tenders

[Address: BHEL Industrial Valve Plant: 433, Industrial Complex, Goindwal Sahib, Distt Tarn Taran, Punjab-143422]

2. Please input your organization PAN No (in case of Indian supplier) or select your "country" in case you are an overseas Supplier.
3. Select Units to participate in.
4. Fill up Company details.
4. Key in your desired login id If you have registered by keying in PAN No. then your desired login id will be prefixed by "OTI", In case of overseas suppliers it will be also prefixed with "OTI".
5. Fill in the Captcha code & agree to the terms & conditions and privacy policy of this website and click SUBMIT.

Once the above steps are completed, contact to M/s eProcurement Technologies Limited for ID Activation. M/s e Procurement Technologies limited, Ahmedabad will activate your ID within 2 business hours. After registering, follow the steps provided in "For Registered Supplier" to view RFQ.

NB: - 1 BHEL Administrator or user will have no role for approving Registration and Open Tenders and DSC for any supplier who has registered himself from the front END which is in case of OT.

For Registered Supplier in EPS:

1. Supplier visits EPS home page
2. Supplier Login in with their user id and password
3. Search the RFQ ID and views it.
4. Attaches themselves to the RFQ by clicking the "I/We wish to participate".
5. Supplier fills the bid template and makes necessary attachments
6. Supplier submits their bid by clicking Sign, Encryption & Save button.

In any problem is faced by supplier while login/registration in EPS (<https://bhel.abcpocure.com>) and any other assistance, please contact the support team of M/s e Procurement Technologies limited, Ahmedabad as per details mentioned in table below: -

Name	Contact Nos.	e-mail ID	Role	Location
Mukunthan	+91 6353215001	Trichy.bhel@eptl.in	Support Executive	Trichy
Swapnil Hamilton	+91 7940270549	swapnil.h@eptl.in	Support Executive	HO – Ahmedabad
Hardik Oza	+91 7940270560	Hardik.oza@eptl.in	Support Executive	HO – Ahmedabad
Ankur Bhatt	+91 7940270590	ankur.bhatt@eptl.in	Support Executive	HO – Ahmedabad
Prashant Rajyaguru	+91 7940270545	prashant@eptl.in	Asst. Manager – Implementation & Support	HO – Ahmedabad
Dharam Rathod	+91 7940270596	dharam@eptl.in	Manager – Implementation & Support	HO – Ahmedabad
Pradip Parmar	+91 7940270532	pradip@eptl.in	Sr Mgr – Implementation & Support	HO – Ahmedabad
Devang Patel	+91 7940270576	devang@eptl.in	Sr Manager – Implementation & Support	HO – Ahmedabad

G2 OTHER IMPORTANT INFORMATION RELATED TO E-PROCUREMENT TENDERS

1. The bidder has to keep track of any changes by viewing the addendum / Corrigendum's issued by the Purchaser on time-to- time basis in the E-Procurement platform. The Company calling for tenders shall not be responsible for any claims/problems arising out of this.
2. The user should complete all the processes and steps required for bid submission. The successful bid submission can be ascertained once acknowledgement is given by the system through bid submission number after completing all the processes and steps. BHEL and M/s e Procurement Technologies limited will not be responsible for incomplete bid submission by users. Users may also note that the incomplete bids will not be saved by the system and are not available for the Purchaser for processing.
3. Before uploading scanned documents if any, the bidders shall sign on all the statements, documents, certificates uploaded by him, owning responsibility for their correctness / authenticity.
4. On the due date of tender opening, only technical bids will be opened. The opened technical bids will be evaluated by us and clarifications required, if any, will be called for from the bidders on technical and commercial points. If no reply is received from the vendor for the clarification raised by BHEL with in the final cut-off date, those vendors offer will be processed with the documents available / submitted against this tender. Offers not meeting the required specification and technical condition will be summarily rejected. The price bids of technically suitable bidders will be opened on a later date with prior intimation to techno-commercially suitable bidders.
5. Ranking L-1, L-2 etc. shall be done for individual item for the techno-commercially acceptable offers on landed cost to BHEL, IVP Goindwal basis and BHEL reserves the right to place order for individual items with different vendors. In the event of more than one vendor becoming L1 for the item, the enquiry quantity will be shared equally among all the L1 vendors.
6. BHEL reserves the right to negotiate with L1 vendor or re-float the tender for items where, L1 price is not the lowest acceptable price; BHEL reserves the right to increase or decrease the tender quantity.
7. If supplier is mentioning delivery destination within state/ outside state depending upon his location of factory, Free On Road etc these are assumed as on FOR Goindwal. If supplier is wishing to give delivery on Ex works basis, then he has to clearly mention about it.

G3 PRICE BASIS

- a. Order of enquiry item sl. No. shall be maintained in the quotation.
- b. The rates quoted shall be firm and fixed. No price variation is proposed and allowed.
- c. Rates quoted should be F.O.R Goindwal basis. If bidder has quoted Ex Works, loading shall be done as per BHEL discretion for tender evaluation.

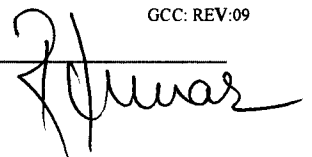
Variation in GST or any other statutory levies during contractual delivery period shall be to BHEL's account

G4 VALIDITY OF OFFERS:

The offers shall be kept open for acceptance 'for number of days mentioned in special terms and conditions' from the date of opening of the tender. In case of extension of tender opening date, the validity shall be suitably revised.

G5 SCOPE OF SUPPLY

Material shall be supplied as per the applicable latest Technical Delivery Conditions (TDC)/ Material Standard requirements/BPS/Drawing and other requirement as given in the Tender





General Contract Conditions (GCC) of MM Tenders

[Address: BHEL Industrial Valve Plant: 433, Industrial Complex, Goindwal Sahib, Distt Tarn Taran, Punjab-143422]

Enquiry. National & International material Standards shall have to be arranged by vendors themselves.

G6 REPLACEMENT OF REJECTION

If the material is rejected due to defective workmanship during inspection or at the time of actual use, within the guarantee period (i.e. as per clause 13), the rejected material shall be replaced by the supplier. Corresponding quantity shall be treated as unsupplied against respective purchase order till replacement is received at BHEL. If the material is found defective and rejected during use for which payment has already been released the rejected quantity shall be supplied free of cost by the vendor within a month of intimation of the rejection by BHEL.

Lifting of rejected material is under Supplier's scope. BHEL will inform related invoice, qty etc to supplier. Supplier is expected to give the plan to lift and advance intimation when visiting to lift the material. Material should be lifted within one month from date of intimation. After one month BHEL will not be responsible for rejected material. BHEL may decide to send the rejected material on to Pay basis to supplier. Any leniency/ unresponsiveness/delay on part of supplier may lead to appropriate action by BHEL. Any request to postpone in written may be considered but replacement should not be linked with lifting of material.

G7 SUPPLIED MATERIAL ADJUSTMENT

Item/s pending in previous PO has to be billed in previous PO only. Otherwise BHEL will be free to adjust the supplies in previous PO. Any implication of tax will be on supplier's account. For this it is desirable to reconcile the pending PO statement every month/frequently. BHEL will give pending PO statement every month. This can also be viewed at Portal (<http://vis.bheltry.co.in/mm/index.jsp>).

G8 DELIVERY SCHEDULE

Supplies shall be affected and completed as per schedule mentioned in special terms and conditions. **Further, BHEL may release delivery schedule from time to time based upon our requirement with mutual understanding.** Vendor shall be required to complete the order as per the BHEL schedule requested.

G9 ACCESS TO MANUFACTURING PREMISES:

While Purchase Orders placed on the vendor are under execution, authorized representatives of BHEL shall be allowed free access to the manufacturing facilities for the purpose of inspection or monitoring the progress of purchase orders. This access will also be extended to representatives of BHEL's customers accompanying the authorized representative/s of BHEL (which shall be intimated in advance), if our contractual requirements with our customers call for the same.

G10 TERMS OF PAYMENT:

- a. Due payment against supplies received shall be due after 30 days of receipt and acceptance of material and shall be paid within next 15 days' period. In case of any deviation from standard payment term mentioned, BHEL at its discretion may load on the item price at "Base rate of SBI (as applicable on the date of bid opening; Techno-commercial bid opening) + 6% shall be considered for loading for the period of relaxation sought by bidders.
- b. Documents to be submitted (if applicable)
 - i. Tax invoice (Invoice shall be GST compliant and should contains all the required information such as GST No, HSN code etc.)
 - ii. Transporter copy along with material/consignment.
 - iii. Material Test Certificates (MTC) and
 - iv. Compliance Certificate.
- c. GST registration number is to be submitted by qualified vendor as per GST law.
- d. It is mandatory to mention proper material codes in the invoices and separate invoices to be raised for different POs.

e. BHEL releases payment through EFT mode ONLY. Necessary details may please be submitted by filling required format before release of payment.

f. Conditions relating to release of GST portion:

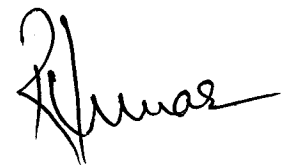
Payment of GST portion will be released to vendor only upon completion of statutory requirement and further subject to following:

The reimbursement of GST portion of invoice shall be released only upon: -

1. vendor declaring such invoice in his GSTR-1 and
 2. receipt of goods and Tax invoice by BHEL and
 3. Confirmation of payment of GST thereon by vendor on GSTN portal.
 4. Above is subject to receipt of goods/service and tax invoice thereof along with vendor declaring invoice in his return and paying GST within timeline prescribed for availing ITC by BHEL.
- In case GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied / leviable on BHEL.
 - In case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied / leviable on BHEL.

G11 AVAILING INPUT TAX CREDIT (ITC) BY BHEL:

1. Since ITC can be availed only when BHEL is in possession of GST Tax invoice and after receipt of goods. Thus, vendor to ensure timely dispatch of goods and Tax invoice. It may be noted that in case of any delay in receipt of Tax Invoice and/or receipt of goods, the ITC availment by BHEL will get delayed thus entailing additional cash outflow & may even get denied if ITC availment timelines are breached.
2. Further ITC can be availed only when vendor has declared such invoice in his outward supply Return GSTR-1 and after GST thereon has been paid by him at the time of filing of monthly Return.
3. If GST credit is delayed/denied to BHEL due to non/delayed receipt of goods and/or tax invoice or expiry of timeline prescribed in GST law for availing such ITC, or any other reasons not attributable to BHEL, GST amount shall be recoverable from vendor along with interest levied/leviable on BHEL.
4. Further, in case vendor delays declaring such invoice in his return and GST credit availed by BHEL is denied or reversed subsequently as per GST law, GST amount paid by BHEL towards such ITC reversal as per GST law shall be recoverable from vendor/contractor along with interest levied/leviable on BHEL.



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G12 LIABILITY UNDER REVERSE CHARGE (RCM)

Any GST liability arising on BHEL under Reverse Charge (RCM) before actual receipt of goods and/ or Invoice thereof would be subject to recovery of Interest leviable for the period between the date of such liability and actual date of eligibility of ITC based on receipt of goods, receipt of Invoices and other conditions specified in GST Law as applicable.

G13 INSPECTION

- a. All required tests as called in referred material standard/BHEL/TDC/drawing etc shall be carried out by vendor at no extra cost. **BHEL may decide to inspect itself/arrange third party at vendors' works itself as and when necessary with prior intimation to the vendor.** No additional charges shall be claimed for such inspections.
- b. Third party inspection charges will be borne by BHEL. Moreover, all required infrastructure (testing, tools etc) have to be arranged by supplier.
- c. **Vendor will give inspection call sufficiently in advance considering the delivery period stipulated in the purchase order.**
- d. Material Test Certificates (MTC), Inspection reports and Compliance/Guarantee Certificate are to be provided along with the supplies.
- e. Latest applicable revisions of standards/procedures to be referred. International/National standards are to be arranged by vendor.
- f. Any inspection carried out before supply by vendor/incoming stage at BHEL notwithstanding, if any defect/non-conformity is noted during processing, the same shall be attended/replaced by vendor at no extra cost.
- g. Necessary tooling including thread gauges etc. have to be arranged by vendor. Only in exceptional cases, based on BHEL discretions item/nature, BHEL may consider request to provide gauges if available with BHEL. But in no case this shall be linked with delivery of material.
- h. BHEL representative from unit or CQ is authorized to carry out audits along with TPIA at vendor's works before clearing the items for dispatch.

G14 PREFERENCES FOR MSE's

Preferences as mentioned in "Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012" & "Public Procurement Policy for Micro and Small Enterprises (MSEs) Amendment Order, 2018", shall be given to Micro and Small enterprises.

Main points which are mentioned in the above orders are as follows:

- 25% Procurement of the tender value shall be made from MSE (Micro, Small Enterprises) firms.
- 25% of the 25% quantity (i.e. 6.25% of the tender quantity) offered to the MSE's shall be reserved for MSE's owned by SC/STs. Failure to participate by any MSE owned by SC/ST's; this 6.25% quantity shall be procured from other MSEs.
- 3% from within the 25% quantity offered to the MSE's shall be reserved for women owned MSE's. Failure to participate by any MSE owned by women; this 3% quantity shall be procured from other MSEs.
- EMD shall be exempted for MSE's. All these benefits are subject to production of all statutory documents
- In tender, participating Micro and Small Enterprises quoting price within price band of L1+15 per cent shall also be allowed to supply a portion of requirement by bringing down their price to L1 price in a situation where L1 price is from someone other than a Micro and Small Enterprise and

such Micro and Small Enterprise shall be allowed to supply up to 25 per cent of total tendered value. In case of more than one such Micro and Small Enterprise, the supply shall be shared proportionately (to tendered quantity).

“MSE suppliers can avail the intended benefits only if they submit along with the offer UAM (Udyog Aadhaar Memorandum), attested copies of either EM II certificate having deemed validity (five years from the date of issue of acknowledgement in EM II) or valid NSIC certificate or EM II certificate along with attested copy of a CA certificate (Format enclosed at Annexure -1 where deemed validity of EM II certificate of five years has expired) applicable for the relevant financial year (latest audited). Date to be reckoned for determining the deemed validity will be the date of bid opening (Part 1 in case of two part bid). Non submission of such documents will lead to consideration of their bid at par with other bidders. No benefit shall be applicable for this enquiry if any deficiency in the above required documents is not submitted before price bid opening. If the tender is to be submitted through e-procurement portal, then the above required documents are to be uploaded on the portal. Documents should be notarized or attested by a Gazetted officer.

G15 GUARANTEE/WARRANTEE

Vendor shall give a guarantee of 18 months from the date of dispatch or 12 months from date of receipt, against manufacturing defects, whichever is earlier. In case of non-acceptance of this term bid will be rejected.

G16 PENALTY FOR LATE DELIVERY

‘Time is the essence of the contract’. As such, delivery of goods specified in the Purchase Orders released under the scope of this contract shall be made within the time limit prescribed therein. Penalty for late delivery will be applicable @ 0.5% per week or part thereof subject to a maximum of 10.0 %.

If any vendor does not accept LD ½% of the supply for each week of delay subject to a maximum of 5%, their offer is likely to be rejected by BHEL and the price bid shall not be opened. Bidders accepting for 10% LD shall not be loaded on account of LD. However, bidders who offer any other % LD [between 5% to 10%] shall be loaded @ % deviation from 10% and their accepted %. e.g. If a bidder accepts for a max of 7% LD only, their offer would be loaded @ 3% (10 – 7 = 3).

BHEL reserves the right to receive or not receive the material after the due date of PO. Applicable GST shall also be recovered from suppliers/contractors on LD amount. For this Debit note will be issued by BHEL indicating the respective supply invoice number.

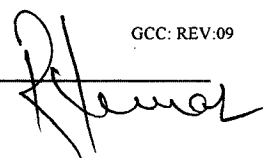
G17 RISK PURCHASE

BHEL shall be entitled to terminate the contract/pending POs at any stage and to purchase elsewhere at the risk and cost of the vendor, either the whole of the goods or any part thereof which the supplier has failed to deliver or dispatch within the time stipulated as aforesaid. Vendor shall be liable for the losses, which BHEL may sustain by way of such risk purchase.

G18 SUB-CONTRACT

The purchase order or any part thereof shall not be sub-contracted, assigned or otherwise transferred without previously obtaining the BHEL's consent in writing.

GCC: REV:09





General Contract Conditions (GCC) of MM Tenders

[Address: BHEL Industrial Valve Plant: 433, Industrial Complex, Goindwal Sahib, Distt Tarn Taran, Punjab-143422]

G19 FORCE MAJEURE

If at any time during the continuance of the contract, the performance in which or in any part by either party of any obligations under the contract are prevented or delayed by reason of any war, hostilities, acts of public enemy, civil commotion, sabotage, fires, explosions, epidemics, quarantine restrictions, or acts of God (hereinafter referred to "an events" then provided the notice of happening of any such event is given by either party to the other within 21 days of the occurrence thereof, neither party shall by reason of such event be entitled to terminate the contract nor shall either party have any claim for damages against the other in respect of such non-performance and delay in performance and delivery under the contract shall be resumed as soon as practicable after such event has come to an end or ceased to exist. If the performance in whole or part of any obligation under the contract is prevented or delayed by reason of any such event, claims of extension of time shall be granted for periods considered reasonable by BHEL subject to prior notification by the vendor to BHEL of the particulars of the event and supply to BHEL, if required, of any supporting evidence. Any waiver of time in respect of partial installment shall not be deemed a waiver of time in respect of remaining deliveries.

G20 DISPUTES

In the event of any dispute and/or difference arising between the Vendor and BHEL as to interpretation and/or execution of the contract and/or the respective rights and liabilities of the parties, such disputes and/or differences shall be referred to the sole arbitrator nominated by BHEL. The provisions of the Indian Arbitration Act and the rules there under shall apply to such arbitration. The award passed by the arbitrator shall be final and conclusively binding on all the parties.

G21 JURISDICTION

The court of the place from where the purchase order is issued during the contractual period shall alone have jurisdiction to decide any dispute arising out of or in connection with the purchase order.

G22 CLARIFICATIONS

The correspondence exchanged against the tender from both tenderer and BHEL through email/e-procurement are considered as valid document legally though it is not signed. It is treated as valid confirmations made on behalf of the respective company and very much comes under the legal ambit of the business transaction and hence it is binding on both the parties to the business. Any transaction pertaining to the tender from both the parties of business done round the clock irrespective of the office or business hours of the companies, are valid legally and binding on both the parties. This applies to the extent only in such cases where deadline time for transaction is not specifically declared by either or both the parties to the business.

G23 LOI (Letter of Intent)

BHEL may issue LOI prior to the PO for any reason whatsoever. The LOI in such cases is to be treated as PO for all practical purposes and all the Terms & Conditions of the tender shall be applicable from the date of issue of LOI.

G24 WORDS AND FIGURES

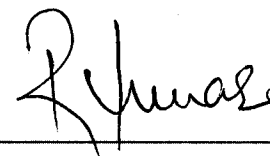
- a. If, in the price structure quoted for the required goods/ services/ works, there is discrepancy between the unit price and the total price (which is obtained by multiplying the unit price by the quantity), the unit price shall prevail and the total price corrected accordingly, unless in the opinion of the purchaser there is an obvious misplacement of the decimal point in the unit price, in which case the total price as quoted shall govern and the unit price corrected accordingly.
- b. If there is an error in a total corresponding to the addition or subtraction of subtotals, the subtotals shall prevail and the total shall be corrected; and
- c. If there is a discrepancy between words and figures, the amount in words shall prevail, unless the amount expressed in words is related to an arithmetic error, in which case the amount in figures shall prevail subject of (a) and (b) above.
- d. If there is such discrepancy in an offer, the same shall be conveyed to the bidder with target date upto which the bidder has to send his acceptance on the above lines and if the bidder does not agree to the decision of the purchaser, the bid is liable to be ignored.
- e. Bids should be free from correction, overwriting, using corrective fluid, etc. Any interlineation, cutting, erasure or overwriting shall be valid only if they are attested under full signature(s) of person(s) signing the bid else shall be liable for rejection.
- f. All overwriting/cutting, etc will be numbered by bid opening officials and announced during bid opening.

G25 GENERAL

- a. BHEL will not be bound by any power of attorney granted by the vendors or by changes in the composition of the firm made subsequent to the execution of the contract. They may, however, recognize such power of attorney and changes after obtaining proper legal advice, the cost of which will be chargeable to the vendor concerned.
- b. BHEL reserves the right to extend the due date of opening, which shall be informed. Validity of offer shall be deemed to be revised accordingly.
- c. BHEL reserves the right to accept or reject any part or whole of the tender of a bidder by assigning a valid reason thereof. BHEL reserves the right to cancel the tender without assigning any reason thereof and without any obligation before any commitment.
- d. If possible, please submit soft copy of price quotation [copied on a blank CD of standard make] put in the sealed offer.
- e. Acceptance of all terms and conditions, in the form of signed copy of T&C or confirmation separately written, shall be submitted along with quotation. If nothing is mentioned, it shall be concluded that terms and conditions are acceptable.
- f. BHEL may increase/decrease item/s based on BHEL requirement before price bid opening. Suitable price implication may be asked from suppliers.
- g. BHEL may drop item/items from tender at any stage of tender before placing PO. BHEL may also delete PO with consent with supplier within delivery date of PO.
- h. After releasing PO, it is assumed that supplier has accepted PO if we do not receive acknowledgement from supplier within 5 days of date of PO.
- i. Any term is special tender terms and conditions will supersede the GCC.
- j. BHEL reserves the right to negotiate with L1 bidder/s.

G26 BANNED FIRMS

The offers of the bidders who are on the banned list as also the offer of the bidders, who engage in the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL website www.bhel.com.



GCC: REV:09



General Contract Conditions (GCC) of MM Tenders

[Address: BHEL Industrial Valve Plant: 433, Industrial Complex, Goindwal Sahib, Distt Tarn Taran, Punjab-143422]

G27 DISCLAIMER CLAUSE: (Only for E procurement)

Neither the Organization (Bharat Heavy Electricals Ltd.) nor the service provider (M/s e Procurement Technologies limited) is responsible for any failure of submission of bids due to failure of internet or other connectivity problems or reasons thereof.

G28 FRAUD PREVENTION POLICY

The Bidder along with its associate / collaborators / sub-contractors / sub-vendors / consultants / service providers shall strictly adhere to BHEL Fraud Prevention Policy displayed on BHEL website <http://www.bhel.com> and shall immediately bring to the notice of BHEL management about any fraud or suspected fraud as soon as it comes to their notice.

G29 REVERSE AUCTION

BHEL reserves the right to go for Reverse Auction (RA) (Guidelines as available on www.bhel.com) instead of opening the sealed envelope price bid, submitted by the bidder. This will be decided after techno-commercial evaluation. Bidders to give their acceptance with the offer for participation in RA. Non-acceptance to participate in RA may result in non-consideration of their bids, in case BHEL decides to go for RA.

Those bidders who have given their acceptance to participate in Reverse Auction will have to necessarily submit 'Process compliance form' (to the designated service provider) as well as 'Online sealed bid' in the Reverse Auction. Non-submission of 'Process compliance form' or 'Online sealed bid' by the agreed bidder(s) will be considered as tampering of the tender process and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

The bidders have to necessarily submit online sealed bid less than or equal to their envelope sealed price bid already submitted to BHEL along with the offer. The envelope sealed price bid of successful L1 bidder in RA, if conducted, shall also be opened after RA and the order will be placed on lower of the two bids (RA closing price & envelope sealed price) thus obtained. The bidder having submitted this offer specifically agrees to this condition and undertakes to execute the contract on thus awarded rates.

If it is found that L1 bidder has quoted higher in online sealed bid in comparison to envelope sealed bid for any item(s), the bidder will be issued a warning letter to this effect. However, if the same bidder again defaults on this count in any subsequent tender in the unit, it will be considered as fraud and will invite action by BHEL as per extant guidelines for suspension of business dealings with suppliers/ contractors (as available on www.bhel.com).

G30 SUSPENSION OF BUSINESS DEALINGS WITH DEFAULTERS

The offers of the bidders who are under suspension as also the offers of the bidders, who engage the services of the banned firms, shall be rejected. The list of banned firms is available on BHEL web site www.bhel.com.

1.0 Integrity commitment, performance of the contract and punitive action thereof:

1.1. Commitment by BHEL:

General Contract Conditions (GCC) of MM Tenders

[Address: BHEL Industrial Valve Plant: 433, Industrial Complex, Goindwal Sahib, Distt
Tarn Taran, Punjab-143422]

BHEL commits to take all measures necessary to prevent corruption in connection with the tender process and execution of the contract. BHEL will during the tender process treat all Bidder(s) in a transparent and fair manner, and with equity.

1.2. Commitment by Bidder/ Supplier/ Contractor:

1.2.1. The bidder/ supplier/ contractor commit to take all measures to prevent corruption and will not directly or indirectly influence any decision or benefit which he is not legally entitled to nor will act or omit in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India.

1.2.2. The bidder/ supplier/ contractor will, when presenting his bid, disclose any and all payments he has made, and is committed to or intends to make to agents, brokers or any other intermediaries in connection with the award of the contract and shall adhere to relevant guidelines issued from time to time by Govt. of India/ BHEL.

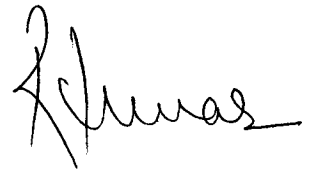
1.2.3. The bidder/ supplier/ contractor will perform/ execute the contract as per the contract terms & conditions and will not default without any reasonable cause, which causes loss of business/ money/ reputation, to BHEL.

If any bidder/ supplier/ contractor during pre-tendering/ tendering/ post tendering/ award/ execution/ post-execution stage indulges in mal-practices, cheating, bribery, fraud or and other misconduct or formation of cartel so as to influence the bidding process or influence the price or acts or omits in any manner which tantamount to an offence punishable under any provision of the Indian Penal Code, 1860 or any other law in force in India, then, action may be taken against such bidder/ supplier/ contractor as per extant guidelines of the company available on [www. bhel.com](http://www.bhel.com) and/or under applicable legal provisions

G31 PREFERENCE TO MAKE IN INDIA

For this procurement, Public Procurement (Preference to Make in India), Order 2017 dated 15.06.2017, 28.05.2018 & 29.05.2019 and subsequent Orders issued by the respective Nodal Ministry shall be applicable even if issued after issue of this NIT before finalization of contract/PO/WO against this NIT.

In the event of any Nodal Ministry prescribing higher or lower percentage of purchase preference and / or local content in respect of this procurement, same shall be applicable.

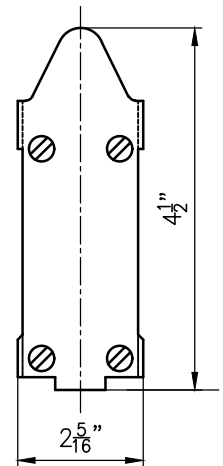
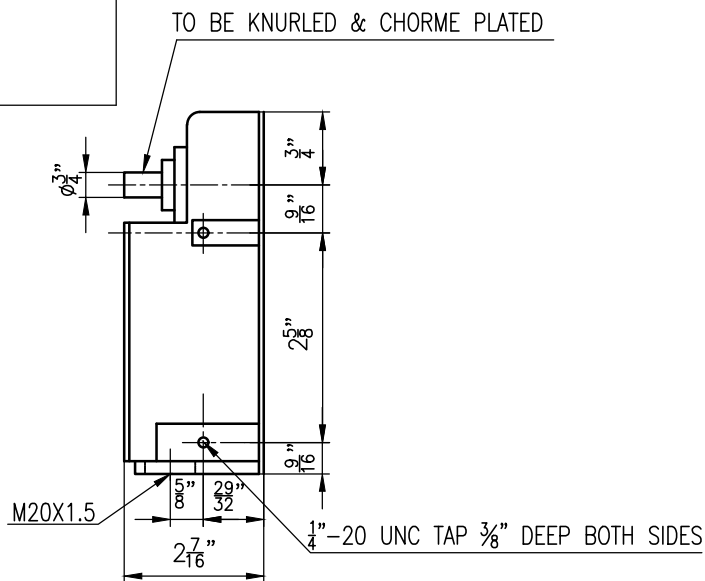
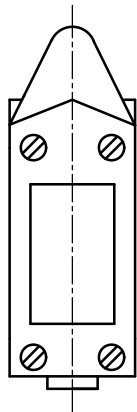


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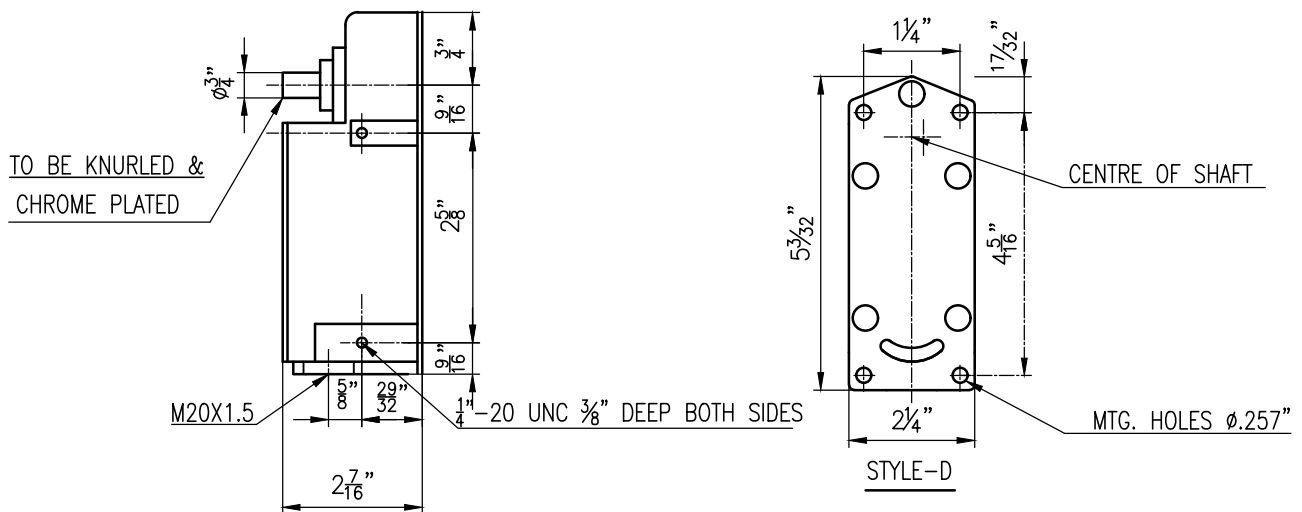
FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED	J.S
01	02.02.17	CHD & APPD	J.S & H.R
DRAWING CONVERTED AS CAD & UPDATED.			
DCN:SB: 802208 / 5022137			

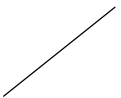
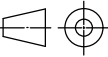


STYLE A BASEPLATE SHOWN (WALL BLOWER SUA 5)

OTHER BASE PLATE FOR SURFACE MOUNTING



(LONG RETRACTABLE SUD 1 & SYD 5)

—	—	—	—	—	—	—	—	—	—	
NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No	
 365-127 BHARAT HEAVY ELECTRICALS LTD., UNIT: HIGH PRESSURE BOILER PLANT. TIRUCHIRAPALLI— 620014.					DRN	NAME J.SANKAR	SIGN J.S	DATE 02.02.17	NO.OF VAR	
					CHD	J.SANKAR	J.S	02.02.17		
					APPD	HIRENDRA RAUT	H.R	02.02.17		
DEPT SB			SCALE	WEIGHT (KG). —	REFERENCE INFORMATIONS				NO. OF ITEMS	
CODE 330			NTS		—					
TITLE SURFACE MOUNTING					CARD CODE U 01	DRAWING NO. 4—20—001—00656				REV 01

 365 - 148	PRODUCT ENGINEERING / V&SB PURCHASE SPECIFICATION OF HEAVY DUTY LIMIT SWITCH FOR SOOT BLOWERS (NON FLAME PROOF TYPE)			SPEC: SB : 0001 PAGE 01 OF 02		REV: 02 Dt. 18.07.11
1.0	COMPONENT	LIMIT SWITCH HEAVY DUTY TYPE				
1.1	NAME OF SWITCH	REVERSE LIMIT SWITCH	STOP LIMIT SWITCH	WALL BLOWER LIMIT SWITCH	COOLING AIR LIMIT SWITCH	
1.2	MATERIAL CODE					
1.2.1	IMPORTED	973539000000	973530210000	973530400000	(I)973661820000 (II)973661820001	
1.2.2	INDIGENOUS	963532840000	(I)963532830000 (II) 963532830001	963532820000	-----	
1.3	SPECIFICATION					
1.3.1	CONTACT SPECIFICATION	1 NO + 1 NC SPDT, SPRING RETURN	(I)1NO + 1 NC 2 POINT DOUBLE THROW SPRING RETURN (II) 2NO+ 2NC 2 POINT DOUBLE THROW SPRING RETURN	1 NO + 1 NC SPOT, SPRING RETURN	(I)1 NO + 1 NC SPDT, MAINTAINED CONTACT (I)2 NO + 2 NC SPDT, MAINTAINED CONTACT	
1.3.2	DIRECTION OF OPERATION	BOTH DIRECTIONS CLOCK WISE & COUNTER CLOCK WISE (CW & CCW)				
1.3.3	CONTACT RATING	MAKE 30 Amps, BREAK 5 Amps.				
1.3.4	EQUIVALENT Sq. D SWITCH TYPE No.	TUD-1	TYD-5	TUA-5	TUD-12	
1.3.5	RATING	600V 30 Amps				
1.3.6	DIMENSIONAL DRAWING	4-20-001-00656 STYLE-D		4-20-001-00656 STYLE – A	4-20-001-00656 STYLE - D	
1.3.7	APPROXIMATE WEIGHT (Kg)	1.5		1.14	1.5	
1.3.8	ENCLOSURE	IP 65				
1.3.9	OPERATION	ROTARY LEVER OPERATION (LEVER WILL BE PROVIDED BY BHEL TRICHY)				
1.3.10	MOUNTING	SURFACE MOUNTING AS PER DRAWING				
1.3.11	CONDUIT ENTRY THREAD SIZE	M20 X 1.5 (FEMALE)				
1.3.12	ACTION	SNAP ACTION SPRING RETURN			SNAP ACTION MAINTAINED CONTACT	
1.3.13	ACTUATION	PROVISION TO BE ENVISAGED TO OPERATE IN BOTH DIRECTIONS (CW & CCW)				
1.3.14	OPERATION/ RETURN TORQUE	11.52 Kg. Cm (10 lb. in.)			9.21 Kg-cm (8 lb.in.)	
1.3.15	AMBIENT TEMP.	85°C				
1.4	SPECIAL FEATURES AND CONSTRUCTIONS	(i) BODY DIE CAST ZINC ALLOY (ii) EXTRA HEAVY DUTY CONTACT RATING (iii) HIGHER OPERATING AND RESET FORCES (iv) RUGGED MECHANICAL CONSTRUCTIONS (v) CONTACT TIPS SHOULD BE SILVER (vi) CONTACT BLOCK SHOULD BE PHENOLIC (vii) ALL INTERNALS SHOULD BE ENCLOSED IN NYLON LINER				
1.5	TESTING REQUIREMENTS	TESTING SCHEDULE GIVEN AS PER ANNEXURE – A (FOR INDIGENOUS SOURCE ONLY)				
1.6	CRITICAL CHECK POINTS					
1.6.1	CHECK POINTS FOS INSPECTION	(i) VISUAL CHECK (ii) DIMENSIONAL CHECK AND MOUNTING DETAILS AS PER DRAWING AND AS PER SPECIFICATION CLAUSE 1.3 (iii) INSPECTION OF THE ABOVE SPECIAL FEATURES AND CONSTRUCTIONS AS PER SPECIFICATION CLAUSE 1.4				
1.6.2	DOCUMENTS REQD. FOR ACCEPTANCE	(i) TYPE TEST CERTIFICATES FOR NEWLY DEVELOPED VENDOR				
1.7	PACKAGING	LIMIT SWITCHES ARE TO BE INDIVIDUALLY PACKED AND DESPATCHED IN THICK PAPER BOXES. (SERV VIOL DULETIN SHALL BE KEPT IN EACH BOX) EACH LIMIT SWITCH SHALL HAVE AN IDENTIFIABLE NUMBER.				
1.8	STORAGE	IT SHALL BE STORED UNDER CLOSED AREA. EXPOSING TO ATMOSPHERIC CONDITION WILL DAMAGE THE EQUIPMENT.				
NOTE : THIS SUPERSEDES PREVIOUS SPEC: TSB : 017 & 74.						
REV 02.		CODE 973661820001 INCLUDED ON 18.07.2011				
Prepared (J.SANKAR)		Checked (RAVINDER SINGH)		Approved (K.SRIDHARAN)		

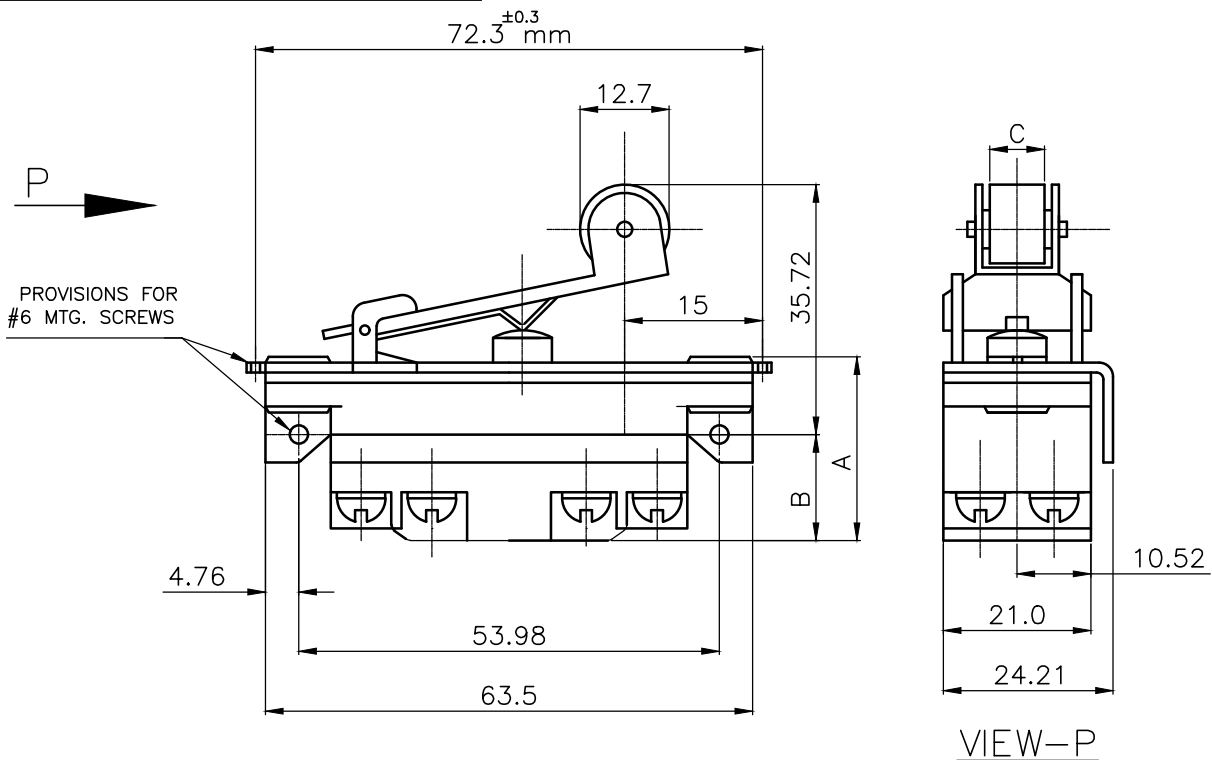
	PRODUCT ENGINEERING / V&SB PURCHASE SPECIFICATION OF HEAVY DUTY LIMIT SWITCH FOR SOOT BLOWERS (NON FLAME PROOF TYPE)	SPEC: SB: 0001 PAGE 02 OF 02	REV:02 Dt. 18.07.11
<u>ANNEXURE - A</u> <u>TEST SCHEDULE FOR HEAVY DUTY LIMIT SWITCHES</u> THE FOLLOWING TYPE TESTS SHOULD BE CARRIED ON EVERY ONE SWITCH IN 100 FROM THE LOT PRODUCED IN THE PRESENCE OF INSPECTING AGENCY . (a) WATER PROOF TEST, (b) TEMPERATURE TEST, (c) RATING TEST (a) <u>WATER PROOF TEST (AS PER NEMA Std. 4) :</u> IN ORDER TO ENSURE THAT THE SWITCH IS WATER PROOF, THE SWITCH WILL BE TESTED BY WATER JET APPLIED ON ALL THE SIDES OF THE SWITCH FOR 5 MINUTES. THE SWITCH IS THEN OPENED TO FIND OUT THE PRESENCE OF ANY INGRESS OF MOISTURE IN THE SWITCH OR ANY OF ITS WORKING PARTS. b) <u>TEMPERATURE TEST:</u> THE SWITCH IS KEPT IN A OVEN WHICH IS SET AT A TEMPERATURE OF 85°C UNDER HUMID CONDITIONS (WITH THE AVAILABLE FACILITY AT SUPPLIER'S WORKS) FOR ONE HOUR. THEN THE SWITCH IS REMOVED FROM THE OVEN AND TESTED FOR ITS FUNCTION GIVING 100 CYCLES UNDER LOADED CONDITIONS. c) <u>RATING TEST:</u> THE RATING TEST WILL CONSIST OF TEST WHEN THE SWITCH WILL BE SUBJECTED TO 6000 CYCLES OF OPERATION MAKING AND BREAKING A CIRCUIT AT RATED VOLTAGE AND LOAD. THE FIRST 1000 CYCLES SHALL BE AT THE RATE OF ONE CYCLE PER SECOND EXCEPT THAT THE FIRST 10 TO 12 OPERATION SHALL BE MADE AS RAPIDLY AS POSSIBLE. IN THE REMAINING 5000 CYCLES SHALL BE AT THE RATE OF 6 CYCLES PER MINUTE. MANUAL SLOW RELEASE AND SNAP ACTION TESTS SHALL BE CONDUCTED ON THIS TEST L. S. II. <u>ROUTINE TEST (100 %):</u> ALL THE LIMIT SWITCHES ARE TO BE TESTED FOR THE FOLLOWING IN THE PRESENCE OF INSPECTING AGENCY. (a). PRE TRAVEL (b). DIFFERENTIAL TRAVEL (c). RESET (d). TOTAL TRAVEL (e). OPERATING TORQUE (f). CONTINUITY (g). INSULATION RESISTANCE (SHOULD NOT BE LESS THAN 5 MEGA OHMS) (h). MANUAL SLOW RELEASE TEST. THE CONTACT SHOULD MAKE AND BREAK WITH SMOOTH OPERATION. IF THE CONTACT STOPS IN OPERATION THE L. S. SHOULD BE REJECTED. (i). SNAP ACTION TEST (j). HIGH VOLTAGE TEST AT 2 KV FOR 2 MINUTES. TO MEASURE THE ABOVE PRE TRAVEL, DIFFERENTIAL TRAVEL, RESET, TOTAL TRAVEL, THE ASSEMBLED SWITCH IS MOUNTED IN A FIXTURE. THE DETAILS OF 4 PARAMETERS (a TO d) MENTIONED ABOVE IS EASILY UNDERSTOOD WITH A REFERENCE TO DRAWING. NO. : 4-20-001-01130. WITH LATEST REVISION.			
REV 02.		CODE 973661820001 INCLUDED ON 18.07.2011	
Prepared (J.SANKAR)	Checked (RAVINDER SINGH)	Approved (K.SRIDHARAN)	

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ALL DIMENSIONS ARE IN INCHES

FOR TOLERANCES OF UNTOLERANCED DIMENSIONS DURING MANUFACTURE REFER RELEVANT QCP/QP

REV	DATE	ALTERED	J.S
03	17.02.18	CHD & APPD	J.S & H.R
DIMENSIONS CONVERTED TO MM & UPDATED. NOTES ALTERED.			
DCN:SB: 802330 / 5023714			



NOTES: —

1. INSULATION SHOULD BE PROVIDED BETWEEN MOUNTING PLATE AND LIMIT SWITCH BODY.

TYPE	A	B	C
AB-23	26.19	12.7	11.9
CB-33	28.58	15.08	11.9

NO OFF	DESCRIPTION	MATL CODE	MATL SPECN	HEAT TREATMENT	SCRAP SORT	NET WT (kg)	GROSS WT (kg)	DRAWING No	ITEM No
	 365-127								
DEPT SB									
CODE	330								
TITLE	MICRO LIMIT SWITCH				CARD CODE	DRAWING NO.			REV
					U 01	4-20-201-01344			03



**PRODUCT ENGINEERING / V & SB
TECHNICAL DELIVERY CONDITIONS FOR
SUBDELIVERY COMPONENTS OF SOOT BLOWERS**

TSB : 018

Rev. 05

SHEET No. 01 of 02

LIMITS SWITCHES (MICRO)

- 1.0 Component : Limit Switches (Micro)
- 1.1. Material Code :
- 1.1.1. 963720640000 – Limit Switch (1NO+1NC): OTHER APPROVED MAKE
963720640001 – Limit Switch (1NO+1NC): B.C.H.
- 1.1.2. 963720630000 – Limit Switch (2NO+2NC): OTHER APPROVED MAKE
963720630001 – Limit Switch (2NO+2NC): B.C.H.
- 1.1.3. 973536800000 – Limit Switch (1NO+1NC):SQ-D Make, AB 23
- 1.1.4. 973530390000 – Limit Switch (2NO+2NC): SQ-D Make, CB 33
- 1.2. Application
- 1.2.1 Item 1.1.1 OR 1.1.3 is used for the control of wall deslaggers and rotary blowers.
- 1.2.2 Item 1.1.2 OR 1.1.4 is used for the control of wall deslaggers.
- 2.0 Specification
- 2.0.1. For item 1.1.1-Precision Switch with roller lever 600V, 15A, 1NO + 1NC Contacts, Break 5A, Make 8A PSRL of Cutler Hammer with improved features. (PSRL-R)
- 2.0.2. For item 1.1.2 Precision Switch roller lever 600V, 15A, 2NO+2NC Contacts, Break 0.8A, Make 6A PSRL-2 of Cutler Hammer with improved features. (PSRL-R2)
- 2.0.3. For item 1.1.4 Precision Snap Switch with rigid roller lever 600V, 10A, 2NO+2NC Contacts, Break 345VA, Make 3450VA. Type CB-33 of SQ-‘D’
- 2.0.4 For item 1.1.3 Precision Snap Switch with rigid roller lever 600V, 15A, 1NO+1NC Contacts, Break 5A, Make 8A. Type AB-23 OF SQ-‘D’
- 2.1 General specification
- 2.1.1. Operation : Roller lever (With 10mm Roller Width)
- 2.1.2. Operating force : Max. 0.595 Kg. Min. 0.387 Kg.
- 2.1.3 Terminal Capacity (Solid or stranded conductor) : 2.5 mm²
- 2.1.4 Action : Quick make and break.
- 2.1.5 Limit Switch dimensional detail for mounting, roller dimensions and operating data should accompany the offer.
- 2.1.6 LIMIT SWITCH Mounting Dimensions shall be as per Drg.No.4-20-201-01344
- 2.1.7 Frequency of operation : Should be suitable for 2500 operation/hr.

Rev:05 Dt.27/08/2004.

CONVERTED AS SOFT COPY.

Prepared (K.SRIDHARAN)

Date:
27/08/2004.

Approved (S.NATARAJAN)



**PRODUCT ENGINEERING / V & SB
TECHNICAL DELIVERY CONDITIONS FOR
SUBDELIVERY COMPONENTS OF SOOT BLOWERS**

TSB : 018

Rev. 05

SHEET No. 02 of 02

3.0 Inspection and Certificate

3.1 Inspection will be conducted by BHEL Inspector at supplier's work or at BHEL on receipt of the material (A)

3.2 Supplier to give guarantee certificate for 12/18 months trouble free operation.

4.0 Packaging : To be packed in weather proof card board boxes and dispatched.

5.0 Quantity : Item 1.1.1 or 1.1.3 – 1 No. / Wall deslagger and 1 No. / Rotary blower
Item 1.1.2 or 1.1.4 – 1 No. / Wall blower.

6.0 Approximate weight : 0.2 kg/ piece

7.0 Spares requirement : Spares vary respect to No of blowers.

8.0 Storage : To be protected from sun & rain. Exposing to atmosphere
damage the material.

For internal use only (A)

- i. The type numbers are to be checked as specified.
- ii. Visual inspection to check for damages, operation and also to ensure whether the switches are supplied in accordance with the specification shown in the purchase order like dimensional details and number of contacts.

Rev:05 Dt.27/08/2004.

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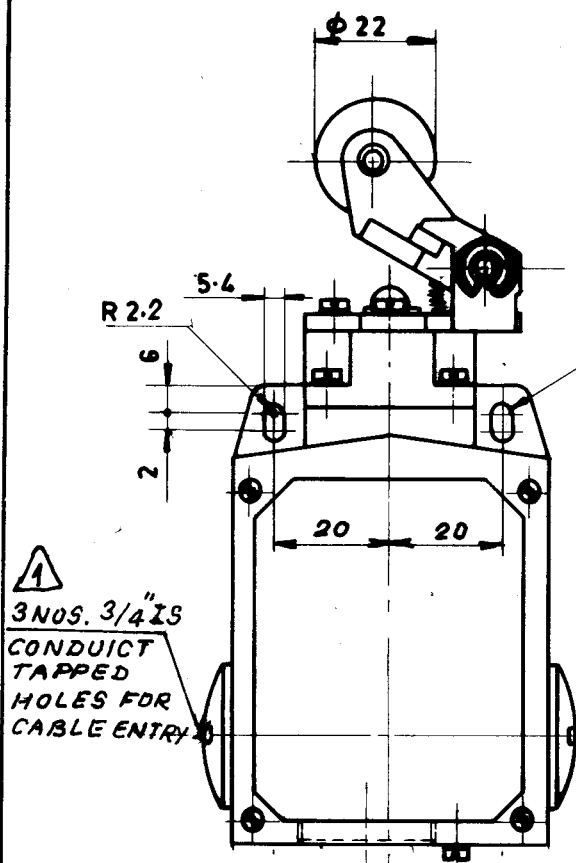
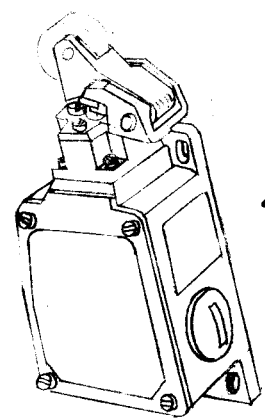
Prepared (K.SRIDHARAN)

Date:
27/08/2004.

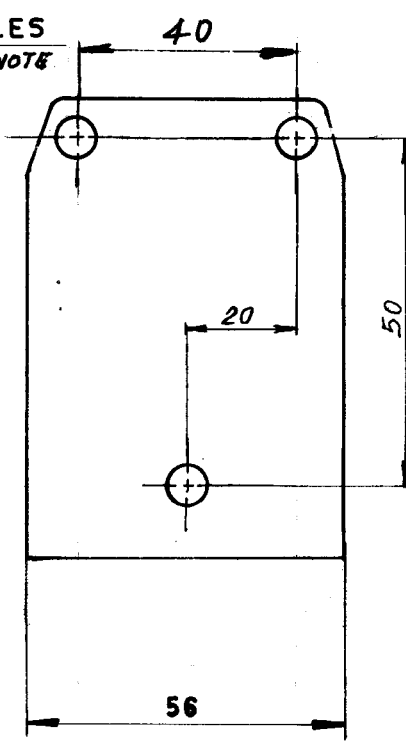
Approved (S.NATARAJAN)

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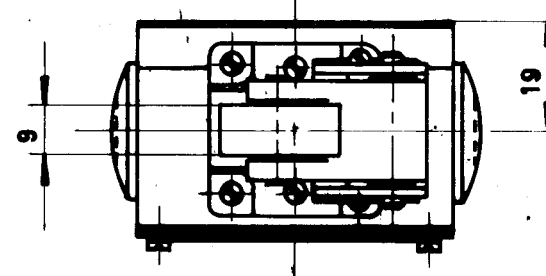
DATE	ALTERED	REV	DATE	ALTERED
27-9-79	T.B.L.	02	26-7-93	T.B.L.
CHECKED		CHECKED		
NO. OFF MOUNTING HOLES CHANGED FROM 4 TO 2 & NOTES ADDED. REFER DCN:CS:0127		MOUNTING HOLES REVISED NOTES INCLUDED. REFER DCN.NO.CS:0157		



2 HOLES
REFER NOTE No.1



VIEW - P (ALTERNATE MOUNTING DETAILS)



- NOTES:-
- 1. THE LIMIT SWITCH CAN BE ACCEPTED WITH 2 MOUNTING HOLES OR 3 MOUNTING HOLES ALONG WITH REQUIRED FASTENERS.
 - 2. FOR TECHNICAL DELIVERY CONDITIONS REFER VL:STDC:021.



BHARAT HEAVY ELECTRICALS LIMITED
BOILER PLANT UNIT, TIRUCHIRAPALLI-620014

DEPT VL.	CODE 320	SCALE NTS.	WEIGHT (kg.) 0.5	REF. TO ASSY. DRG.	15	16
TITLE LIMIT SWITCH				DRAWN K.R.	SIGN [Signature]	DATE 27-9-79
				CHECKED [Signature]		
				APPROVED [Signature]		27-9-79
DIMENSIONS TO BE CONTROLLED WITHIN LIMITS AS SHOWN. MACHINING TOLERANCE ± 0.25 mm. UNLESS OTHERWISE SHOWN NON-MACHINING TOLERANCE $\pm$			CARD CODE	4 DRAWING NO. 4-V - 0000 - 09930		

BHARAT HEAVY ELECTRICALS LIMITED
TIRUCHIRAPPALLI 620 014 INDIA

PRODUCT ENGINEERING / VALVES

VL:STDC:021
REV. No:00
PAGE No: 1 OF 1

TECHNICAL DELIVERY CONDITION FOR LIMIT SWITCH FOR CS VALVES

NAME OF THE ITEM: LIMIT SWITCH WITH NORMAL ROLLER
LEVER SNAP ACTION TYPE IN OIL TIGHT
DIE CAST ALUMINUM HOUSING

TYPE : MOMENTARY CONTACT TYPE

APPLICATION : TO INDICATE OPEN OR CLOSE POSITION
OF A VALVE HAVING A STRIKER PLATE
ATTACHED TO THE STEM.

No. OF NO/NC CONTACTS: 1 NO + 1 NC CONTACTS SHALL BE
PROVIDED.

MAXIMUM FREQUENCY
OF OPERATION : 60 OPERATIONS / HOUR.

RATING: Max.240V AC 3 AMPS OR 240V DC 0.1 AMPS

AMBIENT TEMPERATURE: 50 DEG. C.

ACTUATOR TYPE: NORMAL ROLLER SNAP ACTION TYPE

ENCLOSURE: IP 65 AS PER IS:2147/1962

CONSTRUCTION: 1.THE CONSTRUCTION SHALL BE
COMPLETELY OIL TIGHT, WATER TIGHT,
DUST PROOF AND WEATHER PROOF.
2.CONTACTS SHALL BE SILVER PLATED
3.POSITION OF THE POINT OF CONTACTS
OF THE LIMIT SWITCH TO BE MAINTAINED
WITH AN ACCURACY OF 0.01 mm.
4.THE NO/NC CONTACTS OF THE LIMIT
SWITCH SHALL PROVIDE QUICK MAKE AND
QUICK BREAK ACTION AND FULL CONTACT
PRESSURE AT ALL TIMES.

GENERAL:TENDERER SHALL SUBMIT ALONG WITH THE OFFER 3 COPIES OF
DRAWINGS/ CATALOGUES GIVING COMPLETE CONSTRUCTIONAL AND DIMEN-
SIONAL DETAILS OF THE LIMIT SWITCH OFFERED. THE SUPPLIER HAS TO
SUPPLY NECESSARY FIXING FASTENERS ALONG WITH THE SWITCHES.

PREPARED BY

CHECKED BY

APPROVED BY

SIG.
DATE:

M. Kumar

A. K. Srinivasan
24/7/93

S. An
24/7/93

Certificate by Chartered Accountant on letter head

This is to Certify that M/S,
(hereinafter referred to as 'company') having its registered office at
..... is registered under MSMED Act 2006, (Entrepreneur
Memorandum No (Part-11) dtd:.....,
Category:..... (Micro/Small)). (Copy enclosed).

Further verified from the Books of Accounts that the investment of the company as per the
latest audited financial year as per MSMED Act 2006 is as follows:

1. **For Manufacturing Enterprises:** Investment in plant and machinery (i.e. original cost
excluding land and building and the items specified by the Ministry of Small Scale Industries vide its
notification No.S.O.1722(E) dated October 5, 2006 :
Rs.....Lacs
2. **For Service Enterprises:** Investment in equipment (original cost excluding land and building and
furniture, fittings and other items not directly related to the service rendered or as may be notified under the MSMED
Act, 2006:
Rs.....Lacs

(Strike off whichever is not applicable)

The above investment of Rs.....Lacs is within permissible limit of
Rs.....Lacs forMicro / Small (Strike off which is not applicable)
Category under MSMED Act 2006.

Or

The company has been graduated from its original category {Micro/ Small} (Strike off which is not
applicable) and the date of graduation of such enterprise from its original category is
(dd/mm/yyyy) which is within the period of 3 years from the date of graduation of such
enterprise from its original category as notified vide S.O. No. 3322(E) dated 01.11.2013 published
in the gazette notification dated 04.11.2013 by Ministry of MSME.

Date:

(Signature)

Name-

Membership number-

Seal of Chartered Accountant