



Bid Number/बोली क्रमांक (बिड संख्या):
GEM/2023/B/4389752
Dated/दिनांक : 26-12-2023

Bid Document/ बिड दस्तावेज़

Bid Details/बिड विवरण	
Bid End Date/Time/बिड बंद होने की तारीख/समय	16-01-2024 15:00:00
Bid Opening Date/Time/बिड खुलने की तारीख/समय	16-01-2024 15:30:00
Bid Offer Validity (From End Date)/बिड पेशकश वैधता (बंद होने की तारीख से)	120 (Days)
Ministry/State Name/मंत्रालय/राज्य का नाम	Ministry Of Heavy Industries And Public Enterprises
Department Name/विभाग का नाम	Department Of Heavy Industry
Organisation Name/संगठन का नाम	Bharat Heavy Electricals Limited (bhel)
Office Name/कार्यालय का नाम	10110009-heap, Haridwar
Total Quantity/कुल मात्रा	4
Item Category/मद केटेगरी	Dirt Catcher NB 40 (Q3)
MSE Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से एमएसई छूट	No
Startup Exemption for Years of Experience and Turnover/ अनुभव के वर्षों से स्टार्टअप छूट	No
Document required from seller/विक्रेता से मांगे गए दस्तावेज़	Certificate (Requested in ATC) *In case any bidder is seeking exemption from Experience / Turnover Criteria, the supporting documents to prove his eligibility for exemption must be uploaded for evaluation by the buyer
Bid to RA enabled/बिड से रिवर्स नीलामी सक्रिय किया	No
ITC available to buyer/क्रेता के लिए उपलब्ध आईटीसी	Yes
Type of Bid/बिड का प्रकार	Two Packet Bid
Time allowed for Technical Clarifications during technical evaluation/तकनीकी मूल्यांकन के दौरान तकनीकी स्पष्टीकरण हेतु अनुमत समय	3 Days
Inspection Required (By Empanelled Inspection Authority / Agencies pre-registered with GeM)	No

Bid Details/बिड विवरण

Payment Timelines	Payments shall be made to the Seller within 90 days of issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills (This is in supersession of 10 days time as provided in clause 12 of GeM GTC)
Evaluation Method/मूल्यांकन पद्धति	Total value wise evaluation

EMD Detail/ईएमडी विवरण

Required/आवश्यकता	No
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ePBG Detail/ईपीबीजी विवरण

Required/आवश्यकता	No
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Splitting/विभाजन

Bid splitting not applied/बोली विभाजन लागू नहीं किया गया.

MII Purchase Preference/एमआईआई खरीद वरीयता

MII Purchase Preference/एमआईआई खरीद वरीयता	No
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MSE Purchase Preference/एमएसई खरीद वरीयता

MSE Purchase Preference/एमएसई खरीद वरीयता	Yes
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1. Purchase preference to Micro and Small Enterprises (MSEs): Purchase preference will be given to MSEs as defined in Public Procurement Policy for Micro and Small Enterprises (MSEs) Order, 2012 dated 23.03.2012 issued by Ministry of Micro, Small and Medium Enterprises and its subsequent Orders/Notifications issued by concerned Ministry. If the bidder wants to avail the Purchase preference, the bidder must be the manufacturer of the offered product in case of bid for supply of goods. Traders are excluded from the purview of Public Procurement Policy for Micro and Small Enterprises. In respect of bid for Services, the bidder must be the Service provider of the offered Service. Relevant documentary evidence in this regard shall be uploaded along with the bid in respect of the offered product or service. If L-1 is not an MSE and MSE Seller (s) has/have quoted price within L-1+ 15% (Selected by Buyer) of margin of purchase preference /price band defined in relevant policy, such Seller shall be given opportunity to match L-1 price and contract will be awarded for 100%(selected by Buyer) percentage of total QUANTITY. The buyers are advised to refer the OM No.F.1/4/2021-PPD dated 18.05.2023 [OM_No.1_4_2021_PPD_dated_18.05.2023](#) for compliance of Concurrent application of Public Procurement Policy for Micro and Small Enterprises Order, 2012 and Public Procurement (Preference to Make in India) Order, 2017.

Dirt Catcher NB 40 (4 pieces)**Technical Specifications/तकनीकी विशिष्टियाँ**

Buyer Specification
Document/क्रेता विशिष्टि दस्तावेज़

[Download](#)

Input Tax Credit(ITC)/इनपुट कर क्रेडिट(आईटीसी) and/ तथा Reverse Charge(RCM)/रिवर्स प्रभार (आरसीएम) Details

ITC on GST/जीएसटी पर इनपुट कर क्रेडिट	ITC on GST Cess/जीएसटी उपकर कर क्रेडिट
100%	NA

Additional Specification Documents/अतिरिक्त विशिष्टि दस्तावेज़

DrawingDocument1

[View](#)

Consignees/Reporting Officer/परेषिती/रिपोर्टिंग अधिकारी and/ तथा Quantity/मात्रा

S.No./क्र. सं.	Consignee Reporting/Officer/ परेषिती/रिपोर्टिंग अधिकारी	Address/पता	Delivery Schedule/डिलीवरी अनुसूची (In number of days from contract start days/अनुबंध प्रारंभ होने की तारीख से दिनों की संख्या में)		
			Quantity/मात्रा	Delivery to start after/प्रारंभ होने की तारीख से डिलीवरी	Delivery to be completed by/डिलीवरी _____तक पूरी कर ली जाए
1	MAHESH KUMAR PARIHAR	759101,Head of Projects, NTPC LIMITED, TALCHER TPP, STAGE-III 2X660MW, PO TALCHER, DISTT- ANGUL STATE OF ODISHA, PIN 759101	1	400	580
			1	401	700
2	Paras Kumar Ludu	486886,Mahan Energen Limited 2x800 MW (Phase-II) Thermal Power Project Village: Bandhaura, Karsualal Tehsil: Waidhan, District - Singrauli, Pin - 486886, Madhya Pradesh.	1	400	580
			1	401	700

Buyer added Bid Specific Additional Scope of Work

S.No.क्र.सं.	Document Title	Description	Applicable/रिवर्स प्रभार के अनुसार जीएसटी i.r.o. Items
1	ATC View	ATC	Dirt Catcher NB 40(4)

The uploaded document only contains Buyer specific Additional Scope of Work and / or Drawings for the bid items added with due approval of Buyer's competent authority. Buyer has certified that these additional scope and drawings are generalized and would not lead to any restrictive bidding.

Buyer Added Bid Specific Terms and Conditions/क्रेता द्वारा जोड़ी गई बिड की विशेष शर्तें

1. Generic

OPTION CLAUSE: The Purchaser reserves the right to increase or decrease the quantity to be ordered up to 25 percent of bid quantity at the time of placement of contract. The purchaser also reserves the right to increase the ordered quantity by up to 25% of the contracted quantity during the currency of the contract at the contracted rates. Bidders are bound to accept the orders accordingly.

2. Buyer Added Bid Specific ATC

Buyer uploaded ATC document [Click here to view the file.](#)

Disclaimer/अस्वीकरण

The additional terms and conditions have been incorporated by the Buyer after approval of the Competent Authority in Buyer Organization, whereby Buyer organization is solely responsible for the impact of these clauses on the bidding process, its outcome, and consequences thereof including any eccentricity / restriction arising in the bidding process due to these ATCs and due to modification of technical specifications and / or terms and conditions governing the bid. Any clause(s) incorporated by the Buyer regarding following shall be treated as null and void and would not be considered as part of bid:-

1. Definition of Class I and Class II suppliers in the bid not in line with the extant Order / Office Memorandum issued by DPIIT in this regard.
2. Seeking EMD submission from bidder(s), including via Additional Terms & Conditions, in contravention to exemption provided to such sellers under GeM GTC.
3. Publishing Custom / BOQ bids for items for which regular GeM categories are available without any Category item bunched with it.
4. Creating BoQ bid for single item.
5. Mentioning specific Brand or Make or Model or Manufacturer or Dealer name.
6. Mandating submission of documents in physical form as a pre-requisite to qualify bidders.
7. Floating / creation of work contracts as Custom Bids in Services.
8. Seeking sample with bid or approval of samples during bid evaluation process.
9. Mandating foreign / international certifications even in case of existence of Indian Standards without specifying equivalent Indian Certification / standards.
10. Seeking experience from specific organization / department / institute only or from foreign / export experience.
11. Creating bid for items from irrelevant categories.
12. Incorporating any clause against the MSME policy and Preference to Make in India Policy.
13. Reference of conditions published on any external site or reference to external documents/clauses.
14. Asking for any Tender fee / Bid Participation fee / Auction fee in case of Bids / Forward Auction, as the case may be.

Further, if any seller has any objection/grievance against these additional clauses or otherwise on any aspect of

this bid, they can raise their representation against the same by using the Representation window provided in the bid details field in Seller dashboard after logging in as a seller within 4 days of bid publication on GeM. Buyer is duty bound to reply to all such representations and would not be allowed to open bids if he fails to reply to such representations.

[This Bid is also governed by the General Terms and Conditions/ यह बिड सामान्य शर्तों के अंतर्गत भी शासित है](#)

In terms of GeM GTC clause 26 regarding Restrictions on procurement from a bidder of a country which shares a land border with India, any bidder from a country which shares a land border with India will be eligible to bid in this tender only if the bidder is registered with the Competent Authority. While participating in bid, Bidder has to undertake compliance of this and any false declaration and non-compliance of this would be a ground for immediate termination of the contract and further legal action in accordance with the laws./जेम की सामान्य शर्तों के खंड 26 के संदर्भ में भारत के साथ भूमि सीमा साझा करने वाले देश के बिडर से खरीद पर प्रतिबंध के संबंध में भारत के साथ भूमि सीमा साझा करने वाले देश का कोई भी बिडर इस निविदा में बिड देने के लिए तभी पात्र होगा जब वह बिड देने वाला सक्षम प्राधिकारी के पास पंजीकृत हो।बिड में भाग लेते समय बिडर को इसका अनुपालन करना होगा और कोई भी गलत घोषणा किए जाने व इसका अनुपालन न करने पर अनुबंध को तत्काल समाप्त करने और कानून के अनुसार आगे की कानूनी कार्रवाई का आधार होगा।

---Thank You/धन्यवाद---

Buyers Specific Additional Terms & Conditions in addition to GTC

Item Name: Dirt Catcher (Y-Strainer)

Projects: Talcher & Mahan Bandhura Project

A. SCOPE OF ENQUIRY

E-bids on GeM are invited from bidders for the supply of **Dirt Catcher (Y-Strainer)** for **Talcher & Mahan Project**, as per requirement mentioned below:

Sl. No.	Project	Material Code & Item Description	Total Quantity	LOT Quantity	Date for Supply Completion
1	Mahan Energen Limited. 2x800 MW (Phase-II) Thermal Power Project Bandhura, (MP)	W90313166048 DIRT CATCHER AS PER VAR.-06 OF STANDARD ST46003	02	01	04.07.2025
				01	04.11.2025
2	TALCHER TPP, STAGE-III 2X660MW, PO TALCHER, DISTT- ANGUL STATE OF ODISHA,		02	01	29.06.2025
				01	29.10.2025

B. EARNEST MONEY DEPOSIT (EMD): NIL

C. Buyers Specific Additional Terms & Conditions in addition to GTC

Sl. No.	Terms	Description	Your confirmation
1.	Confirmation to compliance of GTC on GeM 4.0 (Ver-1.13)	Acceptance of General terms and conditions on GeM 4.0 (Version 1.13).	
2.	Prices Basis	Prices should be quoted on F.O.R. Destination basis i.e. up to <u>Talcher & Mahan Bandhura Project</u> Project including freight, packing & forwarding charges, GST etc. Please mention here the applicable GST rate included in the price quoted by you.	
3.	Evaluation criteria and currency	Evaluation will be done on the basis of total landed cost to BHEL, with cost involved for delivery up to BHEL <u>Talcher & Mahan Bandhura Project</u> site (considering material cost, taxes & duties, Freight etc. & considering ITC). Bidders to insure applicability of ITC on Gem portal. The evaluation currency for this tender shall be INR.	
4.	Transit Insurance	Transit insurance shall be arranged by BHEL and not to be included in the prices.	
5.	Pre-Qualification Requirement	Please note that procurement shall be done only from the vendors who full-fill the PQR requirement and accepted by our engineering. Bidders are required to fill the required data along with supporting document for BHEL review and approval. Offers of only those vendors will be considered who qualify the PQR before opening of price-bids and approved by Customer.	
6.	Payment Terms	Payments shall be made to the Seller within 90 days of (PRC) after issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission of bills. For Micro/ small & Medium (covered under MSME Act), payment will be made within 45 days & 60 days respectively from PRC after issue of consignee receipt-cum-acceptance certificate (CRAC) and on-line submission	

		of bills. Bidders to provide MSME / UDYAM certificate for payment schedule finalization.	
7.	Technical Requirements	Material specification as per Var-06 of SPEC: ST46003 REV: 10 without any deviation. Painting scheme: Total DFT 200-225, as per approved painting scheme of respective project.	
8.	Quality Requirements	Kindly submit endorsed quality plan "QA_BE_QP_002 Rev 01" along with enquiry. Please confirm that inspection shall be done by BHEL TPIA as per BHEL approved quality plan & drawings. Please note that BHEL will pay directly to BHEL's nominated TPI.	
9.	Other Information	8 Digit HSN code may please be mentioned in Your offer.	
10.	Manufacturing clearance	In case of ordering, vendor has to take manufacturing clearance from BHEL before starting manufacturing of material. Kindly confirm.	
11.	Manufacturing Period	Kindly quote your minimum delivery period in no. of weeks/months From the date of Manufacturing Clearance.....	
12.	Document submission for approval from BHEL	Drawings/Data sheets/Documents/ Quality Plan etc. as called for in the specifications shall be submitted for approval to BHEL within 30 days of purchase order. Approved documents/QP are to be followed by the supplier without any price implication. Any delay in delivery on account of late submission of drawings/data sheets/QAP/documents shall be to vendors account. BHEL will arrange the approval of the drawings/data sheets/documents within 30 days of their receipt provided those are complete in all respect. Delays in approval shall be dealt on merit basis.	
13.	Liquidated Damages	If the Seller/Service Provider fails to deliver any or all of the Goods/Services within the original/re-fixed delivery period(s) specified in the contract, the Buyer will be entitled to deduct/recover the Liquidated Damages for the delay, unless covered under Force Majeure conditions aforesaid, @ 0.5% of the contract value of delayed quantity per week or part of the week of delayed period as pre-estimated damages not exceeding 10% of the contract value of delayed quantity without any controversy/dispute of any sort whatsoever. The date of LR (Lorry Receipt) would be treated as the date of delivery for penalty purposes	
		In case of any deviation to the above penalty clause, BHEL reserves the right to load the offers to the extent to which it is not agreed by vendors (at offered value).	
14.	MDCC clause	Please note that, material shall be dispatched only after issue of Material dispatch clearance certificate (MDCC) end customer. For issue of MDCC, vendors are required to submit all test certificates (TC) and inspection report of third party (IR) to BHEL. After review & acceptance of the quality document, BHEL will forward the same to end customer for issuance of MDCC. Material shall be dispatched within 7 days from the the date of issuance of MDCC.	
15.	Reverse Auction	Bid to RA will be conducted as per GeM GTC .	
16.	Packing	Following documents to be enclosed with despatch documents- 1. Storage and Preservation Manual for site. 2. Pre-commissioning check-list.	

		<p>3. Test Certificates & Guarantee Certificates</p> <p>4. Items nomenclature on vendor packing list to be exactly same as on PO.</p> <p>5. VENDOR TO KEEP TWO COPIES OF O&M MANUAL INSIDE THE DISPATCH BOX OF DIRT CATCHER AND ALSO MENTION IT IN THE VENDOR'S SHIPPING LIST.</p>	
17.	Guarantee	Kindly confirm that all equipment shall be guaranteed for a minimum period of 36 months from the date of supply or 24 months from the date of commissioning, whichever is earlier. Buyer to submit guarantee certificate mentioning above guarantee period.	
		Please note that offers with guarantee period lesser than above mentioned guarantee period may result in rejection of the offer.	
18.	Arbitration:	<p>In case of any dispute arising out of as in connection with this contract, the same shall be referred to arbitration under Arbitration & Conciliation Act 1996 of a sole arbitrator who shall be appointed by mutual consent of the parties. The seat & venue of arbitration shall be Haridwar.</p> <p>The proceedings shall be conducted in English. The Governing law of contract shall be the substantive law of India.</p>	
19.	Risk Purchase:	<p>In case of abnormal delays (beyond the maximum late delivery period as per Penalty clause) in supplies /defective supplies or non-fulfillment of any other terms and conditions given in Purchase Order, BHEL may cancel the Purchase Order in full or part thereof, and may also make the purchase of such material from elsewhere /alternative source at the risk and cost of the supplier. BHEL will take all reasonable steps to get the material from alternate source at optimum cost. If bidder does not agree to the above Risk Purchase Clause, BHEL reserves the right to reject the offer. In case for compelling reasons BHEL accepts the offer without acceptance of this clause by the bidder and in the eventuality of Risk Purchase, appropriate action will be taken as per BHEL extant rules. This will be without prejudice to any other right of BHEL under the contract.</p>	
20.	Firm prices	Price will remain firm and fixed during entire execution of tender/supply.	
21.	Bidder Contact details	<p>Contact details of your representative: Mobile no. & Email id (minimum 2 person)</p> <p>1.</p> <p>2.</p>	

Please note:

1. During techno-commercial clarification, vendor to provide required documents/ clarification within 2-3 days of request. Such vendor Offer may be rejected in case of delay or un-complete documents submission.
2. Please fill your confirmation in all relative boxes or mention deviation accordingly. Blank field may be understood as confirmed by bidder.



BHARAT HEAVY ELECTRICALS LIMITED, HARIDWAR
STE-TL ENGINEERING DEPARTMENT

PRE-QUALIFICATION REQUIREMENT
Dirt Catcher

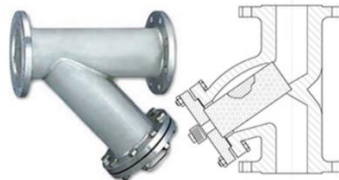
DOCUMENT NO.
PED/DirtC/PQR/20200001
Rev:00 Dt:28.05.2020

The Pre- Qualification Requirements pertaining to Engineering are as follows:

1. The vendor should have an experience in Supply of Dirt Catcher (Y Strainer) in at least 2 different power plants/ process Industries having minimum spec condition as mentioned below. Vendor to furnish experience list as per requirement in Table-1

Table-1

	Size (NB mm)	Pressure (ATA)	Flow rate (Kg/Sec)	aperture size (mm)	End User /customer name	Contact details of End user	Executed PO and date
Minimum acceptance criteria	40	64	2.08	≤0.6			
Project-1							
Project-2							



2. The vendor should furnish the following documents satisfying criteria in clause 1 above -
 - a. Executed Purchase Orders should not be older than 7 years, as on the date of enquiry.
 - b. Vendor to submit self-certified Purchase Order copies (as mentioned at 2a) along with all Technical documents i.e. GA Drawing (Containing Size, pressure, flow rate, aperture size) etc.

Note: -

1. BHEL reserves the right to verify the information submitted by vendor. Submission of false/incorrect information shall lead to rejection of offer and shall be taken seriously by BHEL.
2. BHEL reserves the right to ask for more pertinent information /documents / clarifications. Vendor shall provide this information to BHEL in a timely manner so that project schedule doesn't hamper.
3. All the documents furnished to BHEL shall be in English language only. If the documents are not in English, then they must be accompanied with duly certified English translations of the same.

----End of PQR----

Prepared By Sh. DHRUV GARG	Checked BY Sh. ANUJ JAIN	Approved By Sh. S.K. Gupta
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PURCHASE SPECIFICATION FOR DIRT CATCHER.

1. **SCOPE:** The specification covers the Y-type dirt catcher employed to protect the spray nozzle at downstream.

2. **TECHNICAL DATA:**

	VAR. I	VAR. II	VAR. III	VAR. IV	VAR. V	VAR. VI
SIZE	NB 25	NB 40	NB 40	NB 65	NB 40	NB 40
PRESSURE RATING	40 ata	64 ata	40 ata	40 ata	64 ata	64 ata
Medium FLOW RATE	Condensate 0.88 kg/sec.	Condensate 2.08 kg/sec.	Condensate 2.08 kg/sec.	Condensate 3.1 kg/sec.	Condensate 2.8 kg/sec.	Condensate 3.33 kg/sec.
END CONN. FLANGE ALONG WITH COUNTER FLANGE	DIN 2635	DIN 2636	DIN 2635	DIN 2635	DIN 2636	DIN 2636
APERTURE SIZE	Ø 0.6 mm	Ø 0.6 mm	Ø 0.6 mm	Ø 1.2 mm	Ø 0.6 mm	Ø 0.6 mm
WIRE DIA	Ø 0.4 mm	Ø 0.4 mm	Ø 0.4 mm	Ø 0.6 mm	Ø 0.4 mm	Ø 0.4 mm

3. **MATERIAL:**

3.1 Body with integrally cast flanges along with counter flange -Carbon steel ASTMA216Gr.WCB

3.2 Wire mesh - Stainless steel , AISI 321

3.3 Bolts and nuts – Bolts- 8.8, IS 1367 & Nuts- 8, IS 1367 as per IS 1364

3.4 Washer - IS:3063,Mat:- SPR ST , IS 4072

3.5 Gasket – Grafoil Sheet /Grafoil filled spiral wound as per DIN2690 , thickness 3mm

16/11/13
P-5390

				NAME	SIGNATURE & DATE
TSX	B.CHOUHARY	(B) 16.11.13	WORKED BY	SUDHIR K. GAUTAM	Sudhir 16/11/13
QAX	VIBHUTI SHAH	(V) 14/01/13	CHECKED BY	UTKARSH GOGIA	Utkarsh 14/01/13
AGREED DEPTT.	NAME	DATE & SIGNATURE	SUPERVISED BY	ANUJ JAIN	Anuj 14/01/13
			APPROVED :	(A.B.GUPTA) AGM.PED	Abhim 18.12.81
REV.NO. 10	SUPERSEDES		PREPARED : PED		Gp.No 8.20
Dt. 08/01/13			ISSUED : TSX		DATE : 18.12.81



PRODUCT STANDARD

ST46003

(PROJECT ENGINEERING DEPARTMENT)

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SIGN & DATE

SUPERSEDES INVENTOR

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SIGN & DATE

16/11/13

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4. END CONNECTIONS:

Dirt Catcher end connections shall be provided by Vendor which includes Flanges, counter flanges, Gaskets, bolt, nuts and washer, all shall be as per Technical Data table given above.

5. DOCUMENTS:

A. Documents required along with the tender:

The tenderer shall submit the following documents/along with the offer. If any information/documents listed below are missing/ incomplete; the offer shall not be considered by BHEL.

1. Cross sectional drg. of the dirt catcher giving part nos. , description, part material overall dimensions, space required and direction for removal of element & direction of flow.
2. End connection details.
3. Filled in data sheet-1
4. Quality check programme.
5. List of commissioning spares / spare for operation of 3 years and 5 years.
6. Any special requirement.

The document submitted along with tender and approved by BHEL shall be the basis of the order and no changes shall be made without approval from BHEL.

Examination and approval of documents submitted along with the tender by BHEL shall not release the manufacturer and his sub-contractors of their responsibility under the contract.

B. Documents after placement of the order:

Supplier shall submit the documents (as given in Clause 5, A.) with Project name & P.O. number in the title block.

1. 10 copies of finalized contract drawing incorporating BHEL comments if any for each station – 8 weeks.
2. 10 copies of Operation / Maintenance / erection Instructions for each station – 12 weeks.
3. 2 copies of Operation / Maintenance / erection Instructions along with dispatch box & soft copies shall be made available to BHEL.
4. Instruction on conservation and deconservation – 12 weeks.

6. INSPECTION & TESTS:

REV. NO.
10

WORKED BY

UTKARSH
GOSHA

16/11/13

CHECKED BY

ANU J
JAIN

16/11/13

Inventory No.



PRODUCT STANDARD

(PROJECT ENGINEERING DEPARTMENT)

SUPERSEDES INVENTORY NO.

6.1 Hydraulic Test:

Hydraulic test shall be carried out on each body using water containing a suitable inhibitor to prevent rusting of the body & internals after test. No leakage shall occur during the test. After the hydraulic test the internals shall be wiped clean & dry. With reference from ANSI/API6D test pressure will be 1.5 times the nominal pressure for duration of 2 minutes. BHEL or BHEL's customer shall have the right to witness the test. However the test certificate shall be furnished to BHEL. The test certificate should specifically mentioned the test pressure & duration of test along with following information:

1. Tag No.
2. Size
3. Name of manufacturer
4. Plant order No.
5. Date of testing.

6.2 Test Certificate of mesh size from recognized test house.

7. IDENTIFICATION:

Following information should be engraved on a metal sheet properly fixed at a convenient location of the body or body cover. All inscriptions shall be in two languages i.e. Hindi & English, with Hindi on top.

Direction of flow should be engraved on the body.

- | | | |
|-------------|---------------------|--------------------------|
| (1) Tag No. | (3) Pressure rating | (5) Year of manufacturer |
| (2) Size | (4) Manufacturer | (6) P.O. No. |

8. PROTECTION FOR DESPATCH:

- 8.1 Ends shall be protected from external damage and sealed against the ingress of dirt.
- 8.2 A wooden blank should be bolted to the flanges using a minimum of four bolts.
- 8.3 To prevent any effect of salt laden atmosphere high humidity & moisture during shipment & storage. The dirt catcher and other accessories shall be properly conserved suitable to last for 2 years & covered by polythene sheet before packing in the wooden box.

9. GUARANTEE:

The supplier shall guarantee trouble free and satisfactory operation of the equipment for a period of 2 years after installation and commissioning or a period of 36 months from the day the equipment leaves the supplier's works whichever is earlier.

If during commissioning / erection at site any deficiency in a part is detected, BHEL site representative shall prepare the assessment report and a copy of the same shall be forwarded to the supplier. The supplier shall replace / rectify the concerned items free of charge.

The supplier if he so desires may depute his representative to site at his own cost otherwise the findings of BHEL representative shall be final and binding on the supplier of the Dirt catcher.

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DATE & SIGNATURE
16/1/13
P-5398

INVENTORY NO. P-5398	REV. NO. 10			WORKED BY UTKARSH GOHIL	8/11/13
				CHECKED BY ANUS JAIN	8/11/13



PRODUCT STANDARD
(PROJECT ENGINEERING DEPARTMENT)

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SIGN & DATE

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INVENTORY NO.

10. SPARES:

The supplier shall quote item wise price of recommended spares for 3 years & 5 years operation respectively. Vendor to supply 2 sets of extra gaskets in spare as per clause no. 3.5.

11. QUALITY CHECK PLAN:

The supplier shall indicate his production plan & BHEL shall indicate the check hold points for stage checking. BHEL / BHEL's costumer shall have right to witness the checking.

12. STANDARDS:

Wherever standards have been quoted the latest issue and amendments shall apply.

13. GENERAL:

The tenderer can make suitable offers even if there are minor deviations which do not affect the efficient functioning of the equipment. However the deviation must be clearly spelt out. Suppliers shall also fill the Data sheet-1 and submit the same along with the offer.

The offer may not be considered if all the technical particulars and information called for in the specification are not submitted along with the offer.

NOTE: - All dimension are given in mm except otherwise specified.

[Signature]
16/1/13

REV. NO.

10

WORKED BY

UTKASH
GOGIT

[Signature]

8/1/13.

CHECKED BY

ANUJ
JAIN

[Signature]

8/1/13



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PRODUCT STANDARD
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INVENTORY NO.

DATA SHEET--1

Variant No-

1. Nominal pressure rating
2. End connection to DIN 2635 / DIN 2636
3. Nominal size
4. Pressure drop. A) Normal Operation
B) 50% choke condition
5. Hole dia.
6. Wire dia.
7. Gross filtering area
8. Net filtering area
9. Documents as envisaged in clause No. 5 Yes / No
10. Test Certificates
- 10.1 Hydraulic Testing of body Yes / No
- 11.2 Material composition & Mech. Properties of following parts Yes / No
 - 11.2.1 Body
 - 11.2.2 Cover / Bonnet
 - 11.2.3 Mesh
 - 11.2.4 Seat
 - 11.2.5 Seat ring
12. Mesh size from recognized test house. Yes/No
13. Dirt holding capacity

P-5398

REV. NO.
10

WORKED BY

UTKARSH
GOUDA

[Signature]

8/1/13

CHECKED BY

ANUS
JAIN


[Signature]

8/1/13

PAINTING SCHEME

Painting Scheme

Paint (Coat - air less)	Paint Type	No. of coat	DFT*
Primer Paint	: Epoxy base Zinc rich primer paint (IS:14946)	1 Coat	75
Intermediate Paint	: Epoxy MiO Polyamide Cured Paint	1 Coat	100
Finish (Final) Paint	: Aliphatic Acrylic Polyurethane Finish paint	1 Coats	50
		Total DFT	225 (microns)



Stainless Steel Surfaces shall not be painted in general.

The painting environment shall be considered as C-4 as per ISO 12944.

MANUFACTURER'S NAME AND ADDRESS		STANDARD QUALITY PLAN											
BHEL	VENDOR'S NAME	ITEM	DIRT CATCHER		QP NO.	QA/BE/QP/002							
					DATED & REV	23.04.2018 01							
		DRG. NO.	AS PER PO										
		SPEC.	ST 46003										
REV	AS PER PO					Page 1 of 1							
SL. NO.	COMPONENT & OPERATIONS	CHARACTERISTICS	CLASS	TYPE OF CHECK	QUANTUM OF CHECK	REFERENCE DOCUMENT	ACCEPTANCE NORMS	FORMAT OF RECORDS		AGENCY			REMARKS
1	2	3	4	5	6	7	8	9	D	10			11

1.0 RAW MATERIAL													
1.1	BODY	CHEMICAL ANALYSIS	MAJOR	CHEMICAL	1/HEAT	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	TC	✓	P	V		
1.2	MESH	SIZE	MAJOR	MEASUREMENT	100%	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	IR	✓	P	V		FROM RECOGNIZED TEST HOUSE
		CHEMICAL ANALYSIS	MAJOR	CHEMICAL	1/HEAT	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	TC	✓	P	V		
2.0 IN- PROCESS INSPECTION													
2.1	FLANGES (MACHINING)	DIMENSION	MAJOR	MEASUREMENT	100%	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	IR	-	P	-		
		SURFACE FINISH	MAJOR	VISUAL	100%	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	IR	-	P	-		
3.0 FINAL INSPECTION													
3.1	ASSEMBLY	HYDRAULIC TEST	MAJOR	HYDRAULIC	100%	BHEL APPD DWG/ BHEL APPD DATASHEET	NO LEAKAGE	TC	✓	P	W		
3.2		OVERALL DIMENSIONS	MAJOR	MEASUREMENT	100%	BHEL APPD DWG/ BHEL APPD DATASHEET	BHEL APPD DWG/ BHEL APPD DATASHEET	IR	✓	P	W		
3.3	PRESERVATION AND PACKING	-	MAJOR	VISUAL	100%	BHEL SPEC	BHEL SPEC	-	-	P	-		

MANUFACTURER/ SUBCONTRACTOR	LEGEND: RECORDS IDENTIFIED WITH '✓' SHALL BE ESSENTIALLY INCLUDED BY CONTRACTOR IN QA DOCUMENTATION. M: MANUFACTURER / SUBCONTRACTOR B: BHEL / NOM. INSPECTION AGENCY N: CUSTOMER INDICATE 'P' PERFORM 'W' WITNESS AND 'V' VERIFICATION ALL 'W' INDICATED IN COLUMN 'N' SHALL BE 'CHP' OF CUSTOMER	FOR CUSTOMER USE	APPROVED BY