



**ODISHA POWER GENERATION CORPORATION LIMITED
IB THERMAL POWER STATION
PURCHASE DEPARTMENT**

AT: RESOURCE CENTER,PO: BANHARPALI , DIST: JHARSUGUDA-768234 (ODISHA), INDIA.
Tele Fax No. 06645-289-355, Tel No. 06645-289-354/355/356
Email: purchase@opgc.co.in

TENDER ENQUIRY

Ref: 1230000190	Dt.		
Last date & time of receipt of Tender		Date & Time of Opening of Tender	
██████████	██████████	██████████	██████████

EMD:

Name: Arti Tiwari
Contact: 8093076207
Email: arti.tiwari@opgc.co.in

To

Dear Sir,

██
██
██

- 1:1 interchangeability certificate to be submitted along with supply.
- Guarantee/Warranty certificate to be submitted along with supply.
- Material Test Certificate to be submitted.
- Vendors are requested to kindly furnish your PAN & GST Number. GST certificate to be submitted.
- Bank Mandate form to be submitted to make your payment through RTGS/NEFT.
- It is preferred OEM to participate in the bidding procedure. In case dealer/distributor/stockiest, valid OEM certificate must be submitted.
- PO copies & company price list are to be submitted for price justification.
- Country of origin along with supporting documents to be submitted as applicable for imported make items.
- Vendors are requested to submit their sealed offers at our site by sending through Speed Post to Jharsuguda Branch, Pin-768201.
- Qty. may be changed at the time purchase order.
- Delivery: As mentioned in the tender document.
- Payment Terms: As mentioned in the tender document.
- Please refer OPGC Banning policy which will be a part of the bid acceptance and binding:
https://www.opgc.co.in/plc/OPGC_Banning%20_Policy_n.pdf
- In case of single tender Bidder has to submit declaration that they have offered less price to any other Industry during the current and previous year finance year. In case the same is established price fall clause will be applicable and OPGC reserve the right to deduct/claim the differential amount.

Price offered should be of FOR destination, IB Thermal Power Station. P&F, Freight, Insurance, GST and other landed cost component quoted, if any, are to be indicated in terms of percentage of basic price/fixed price or will be loaded maximum for evaluation of bids.

Offer may not be considered without valid GST. Please enclose product catalogue & company price list. Offer will remain valid for a period of 90 days from the date of tender opening. TDS @20% should be deducted from your bill in case of non-submission of PAN details.

Thanking you,

Your faithfully,
(Purchase)

ITEM DETAILS:

PRQ No.	SI	Code	Des.	Qty.	UOM	Delivery
1100011073	00010	194300382009	THERMOCOUPLE, K,DUPLEX,OD-8MM,L=28 MTR	6.000	NO	25.05.2026
1100011073	00020	194300382013	THERMOCOUPLE, K,DUPLEX,OD-8MM,L=18 MTR	5.000	NO	25.05.2026
1100011073	00030	194300382014	"THERMOCOUPLE, K,DUPLEX,OD-8MM,L=24 MTR"	10.000	NO	25.05.2026
1100011073	00040	194300382015	"THERMOCOUPLE, K,DUPLEX,OD-8MM,L=26 MTR"	10.000	NO	25.05.2026
1100011073	00050	194300382016	"THERMOCOUPLE, K,DUPLEX,OD-8MM,L=30 MTR"	8.000	NO	25.05.2026
1100011073	00060	194300382017	"THERMOCOUPLE, K,DUPLEX,OD-8MM,L=22 MTR"	6.000	NO	25.05.2026
1100011073	00070	194300382051	THERMOCOUPLE,R,EL(MM)= 300,IL(MM)=1200	4.000	NO	25.05.2026
1100011073	00080	194300160052	MOTOR BEARING RTD,FOR MILL,DMCW,CEP,ACW	10.000	NO	25.05.2026
1100011073	00090	194300360003	Thermowell,Bar stock,IL-70MM,OD-16MM	6.000	NO	25.05.2026
1100011073	00100	194300360004	Thermowell,Bar stock,IL-350MM,OD-20MM	10.000	NO	25.05.2026
1100011073	00110	194300380026	HEADLESS T/C,K-TYP DUPLEX,IL-350MM,30MTR	10.000	NO	25.05.2026
1100011073	00120	194300382048	THERMOCOUPLE,K,EL(MM)= 300,IL(MM)=1200	12.000	NO	25.05.2026
1100011073	00130	194300160017	RTD,OD-8 MM,L-115MM,L1- 75MM,1/2"NPT(M)	2.000	NO	25.05.2026
1100011073	00140	194300160018	RTD,OD-12 MM,L-155MM,L1- 75MM,1/2"NPT(M)	4.000	NO	25.05.2026
1100011073	00150	194300160019	RTD,OD-12 MM,L-140MM,L1- 75MM,1/2"NPT(M)	3.000	NO	25.05.2026
1100011073	00160	194300160021	RTD,OD-10 MM,L-230MM,L1- 75MM,1/2"NPT(M)	2.000	NO	25.05.2026
1100011073	00170	194300160053	MOTOR BEARING RTD,FOR ID,FD,PA	10.000	NO	25.05.2026
1100011073	00180	194300160030	RTD,OD-3MM,L-80MM,L1- 110MM,1/2"NPT(M)	6.000	NO	25.05.2026
1100011073	00190	194300380073	WELD PAD,FOR 8 MM OD THEMOCOUPLE AND RTD	100.000	NO	25.05.2026
1100011073	00200	194300642018	"TEMP GAUGE 0-200 DEG.C 1/2""NPT(M) CONN	10.000	NO	25.05.2026
1100011073	00210	194300642019	TEMP GAUGE 0-200 DEG C 3/4"NPT(M) CAPILL	10.000	NO	25.05.2026
1100011073	00220	194300642020	"TEMP GAUGE 0-120 DEG.C 1/2""NPT(M) CONN	10.000	NO	25.05.2026

PRQ No.	SI	Code	Des.	Qty.	UOM	Delivery
1100011073	00230	194300642042	TEMP GAUGE,BIMETALC,0-400#C,L-310mm	10.000	NO	25.05.2026
1100011073	00240	194300640009	TEMP GAUGE GAS FILLED,CAP,0-120 DEG,FAN	10.000	NO	25.05.2026
1100011073	00250	194300642055	TEMP GAUGE,BIMETALC,0-200#C,L-265MM	6.000	NO	25.05.2026
1100011073	00260	194300642011	TEMP GAUGE,BIMETALLIC,0-300°C, IL:280MM	14.000	NO	25.05.2026
1100011073	00270	194300642064	TEMP GAUGE,BIMETALC,0-400#C,L-215MM	6.000	NO	25.05.2026
1100011073	00280	194300160016	Headless RTD,4-Wire Duplex,150mm,30mtr	10.000	NO	25.05.2026
1100011073	00290	194300161030	CLASSIFIR RTD TX 276-B	25.000	EA	25.05.2026
1100011073	00300	194300161028	TC & RTD TX 306A	6.000	EA	25.05.2026
1100011073	00310	194300161037	PT100 DUPLEX 1MM L=150MM MILL MAIN (MSR)	10.000	EA	25.05.2026
1100011073	00320	194300381083	THERMOCOUPLE FOR MILL SUPPORT BEARING	6.000	EA	25.05.2026
1100011073	00330	194300381033	K TYPE T/C 400/1000 WITH THERMO WELL	7.000	EA	25.05.2026
1100011073	00340	194300381015	PA Flow Comp TempT/C	8.000	EA	25.05.2026
1100011073	00350	194300381013	Bypass Flow Comp Temp T/C	8.000	EA	25.05.2026
1100011073	00360	194300381040	K TYPE T/C ELEMENT 160/400 WO THERMOWELL	4.000	NO	25.05.2026
1100011073	00370	194300381039	T/C THERMOWELLTYPE PT/PT -RH 13 PERCENT	4.000	EA	25.05.2026

GENERAL INSTRUCTIONS

- 1.0 Each tender should be sent in properly sealed envelope addressed to the Purchase (Head), Ib Thermal Power Station, Banharpali, Dist. Jharsuguda, PIN: 768234. The envelope should bear the tenderer's distinct rubber stamp. Tender No. _____ due on dt. _____ should invariably be given on the cover.
- 2.0 In case of items of specific make, only manufacturers and their accredited agents/stockiest/authorized dealers are entitled to quote. For this they should submit an attested copy of the printed price list along with the tender.
- 3.0 The tenders submitted must be free from over writings or eraser. Corrections & additions if any must be attested. Incomplete tender should not be submitted. Tenders received after the due date of opening will not be entertained.
- 4.0 The required EMD in shape of DD payable at State Bank of India (Code No.SBIN0009510)/ Union Bank of India (Code - UBIN0806625)/ Central Bank of India (Code283899) payable at Ib Thermal Power Station, Banharpali, Jharsuguda in favour of Odisha Power Generation Corporation Limited. Otherwise, you can submit directly RTGS/NIFT in our company name - Odisha Power Generation Corporation Limited, Banharpali. Account number of State Bank of India - 10765789090 (Code No. 9510)/Account number of Central Bank of India, ITPS, Banharpali - 2062780721 (Code - 0283899)/Account number of Union Bank of India, Adhapada - 066211011000005 (Code-0662). In case EMD submitted in form of DD, the DD shall be valid for a period of three (03) months from the date of opening of the price bid.
- 5.0 The offer given must remain valid for a period of 90 days from the date of opening of price bid.
- 6.0 Manuals/Pamphlets/Leaflets and drawings illustrating technical details/year of manufacture, makers name, country of origin must be enclosed with the tender, sample if required should be submitted along with the tender.
- 7.0 The price quoted should be firm and delivery F.O.R destination inclusive of packing,forwarding, transportation and insurance charges except duties & taxes. Rebate discount if any given may also be mentioned.
- 8.0 Percentage of GST declared to be charged should be distinctly shown along with the price quoted. GST Registration number must be indicated invariably.
- 9.0 The tenderer's should be able to complete delivery within 20 to 30 days from the date of receipt of purchase order/delivery clause as mentioned herein in or else LD @0.5% per week or maximum @ 5 % will be applicable from the due date.
- 10.0 The tender should be agreeable to our payment terms, i.e. 100% within 30 days of receipt and acceptance of materials at Site.
Payment terms if mentioned under special terms & conditions shall prevail over the above clause.
- 11.0 Quality of materials to be supplied should be brand new,free from all flaws,good finish and should be as per technical specification and relevant to IS specification.
- 12.0 The merchantability & fitness of the materials should be guaranteed against any manufacturing defect or bad workmanship for a period of 12 months from the date of use or 18 months from the date of supply whichever is earlier. Extra 03 months grace period shall be provided by them for lodging or claiming for the same.
- 13.0 The tender must accompany photocopy of latest & valid Income Tax Clearance Certificate & Good & Service Tax Clearance Certificate without which tender will be rejected.
- 14.0 Destination means Central stores,Ib Thermal Power Station,Banharpali.
- 15.0 Whenever tenderers have entered into Rate Contract with GeM /EPM, they will indicate the same in their tenders and submit a copy of rate contract as a proof of claim.
- 16.0 All Bank charges to vendor's account.
- 17.0 Weight of each item after packing shall have to be mentioned in your offer, otherwise maximum freight charges shall be loaded.
- 18.0 The quantity indicated in this enquiry is provisional and subject to change.
- 19.0 The undersigned reserves the right to accept/reject any or all the tender without assigning any reason thereof.

GENERAL INSTRUCTIONS

- 20.0 Supplier having past experience means of supplying similar items and credentials to other Thermal Power Stations.
- 21.0 Jurisdiction: All contracts effected between OPGCL and vendor shall be subject to Jharsuguda Court Jurisdiction and shall be governed by Law. It is agreed that no other court shall have jurisdiction to entertain any suit or proceedings, even though, part of the cause of action might arise within their jurisdiction. In case any part of the cause of action might arise within the jurisdiction of any other Courts in Odisha, and rest within the jurisdiction of Courts outside the State of Odisha, then it is agreed to between the parties that such suits on proceedings shall be instituted in a Court within the State of Odisha and no other Court outside the State of Odisha have jurisdiction.
- 22.0 Arbitration: In case of any dispute arising out of the supply or interpretation of meaning of the terms in these conditions of purchase or any alleged breach thereof, the same shall be referred to independent Arbitrator/s selected by the aggrieved party and consented by the other party. The arbitration shall be conducted in accordance with the provision of Indian Arbitration Act of 1996 or modifications thereof and award of Arbitrator shall be final and binding on both parties. The arbitrations shall be conducted at Jharsuguda or at such place as decided by Arbitrator. The cost, incidentally shall be borne by the vendor.
- 23.0 Litigation: All expenses and cost in connection with litigation, if any, will be to vendor account.
- 24.0 MSME Policy as per Odisha Micro Small Medium Policy latest amendment shall be applicable.
- 25.0 PATENTS, ROYALTIES, SELLERS LIABILITY AND COMPLIANCE OF REGULATIONS: Vendor shall protect and fully indemnify the Purchaser from any claims for infringement of patents, copy right, trade mark of the like. Seller shall also protect and fully indemnify the Purchaser from any claims from Sellers workman/employees, their heirs, dependents, representatives etc. or from any other person/persons or bodies/companies etc. For any act of commission or omission while executing the order. Seller shall be responsible for compliance with all requirements under the laws and shall protect and indemnify completely the Purchaser from any claims/ /penalties arising out of any infringement.
- 26.0 Vendor has to agree and abide the Non Disclosure agreement and IntegrityPolicy of OPGCL by accepting this enquiry.

(Purchase)



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Ref: 1230000190

ANNEXURE

Item	Matl./Srv Desc.	Qty.	UoM	Unit Rate	Tax	Amount
10	194300382009-THERMOCOUPLE, K,DUPLEX,OD-8MM,L=28 MTR THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321 ,LENGTH=28 MTR, SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL PVC INSULATED FLEXIBLE CABLE,COLOUR CODE: YELLOW(+) RED(-), PIN TYPE LUG	6	NO			

SPECIFICATION-

THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321
,LENGTH=28 MTR,T/C-CLASS-1 AS PER ANSI MC 96.1,IR- >100 OHM @
500VDC.SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT
FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL
PVC INSULATED FLEXIBLE CABLE,COLOUR CODE: YELLOW(+)
RED(-), PIN TYPE LUG,1 MTR SS BRAIDED TEFLON COATED CABLE

20	194300382013-THERMOCOUPLE, K,DUPLEX,OD-8MM,L=18 MTR THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321 ,LENGTH=18 MTR, SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL PVC INSULATED FLEXIBLE CABLE,COLOUR CODE: YELLOW(+) RED(-), PIN TYPE LUG	5	NO			
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SPECIFICATION:

THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321
,LENGTH=18 MTR T/C-CLASS-1 AS PER ANSI MC 96.1,IR- >100 OHM @
500VDC.SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT
FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL
PVC INSULATED FLEXIBLE CABLE,COLOUR CODE: YELLOW(+)
RED(-), PIN TYPE LUG,1 MTR SS



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BRAIDED TEFLON COATED CABLE

NOTE-VENDOR HAS TO SUBMIT DRAWINGS FOR APPROVAL BEFORE MANUFACTURING

30	194300382014-"THERMOCOUPLE, K,DUPLEX,OD-8MM,L=24 MTR" THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321 ,LENGTH=24 MTR, SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL PVC INSULATED FLEXIBLE CABLE,COLOUR CODE: YELLOW(+) RED(-), PIN TYPE LUG	10	NO			
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SPECIFICATION:

THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321
,LENGTH=24 MTR T/C-CLASS-1 AS PER ANSI MC 96.1,IR- >100 OHM @
500VDC.SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT
FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL
PVC INSULATED FLEXIBLE CABLE,COLOUR CODE: YELLOW(+) RED(-), PIN TYPE LUG,1 MTR SS
BRAIDED TEFLON COATED CABLE

NOTE-VENDOR HAS TO SUBMIT DRAWINGS FOR APPROVAL BEFORE MANUFACTURING

40	194300382015-"THERMOCOUPLE, K,DUPLEX,OD-8MM,L=26 MTR" THERMOCOUPLE, K,DUPLEX,OD-8MM,L=26 MTR THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321 ,LENGTH=26 MTR, SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL PVC INSULATED FLEXIBLE CABLE,COLOUR CODE: YELLOW(+) RED(-), PIN TYPE LUG	10	NO			
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SPECIFICATION:

THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321
,LENGTH=26 MTR T/C-CLASS-1 AS PER ANSI MC 96.1,IR- >100 OHM @
500VDC.SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT



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FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL
PVC INSULATED FLEXIBLE CABLE, COLOUR CODE: YELLOW(+) RED(-), PIN TYPE LUG, 1 MTR SS
BRAIDED TEFLON COATED CABLE

50	194300382016-"THERMOCOUPLE, K,DUPLEX,OD-8MM,L=30 MTR" THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321 ,LENGTH=30 MTR, SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL PVC INSULATED FLEXIBLE CABLE, COLOUR CODE: YELLOW(+) RED(-), PIN TYPE LUG	8	NO			
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SPECIFICATION:
THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321
,LENGTH=30 MTR T/C-CLASS-1 AS PER ANSI MC 96.1,IR- >100 OHM @
500VDC.SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT
FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL
PVC INSULATED FLEXIBLE CABLE, COLOUR CODE: YELLOW(+) RED(-), PIN TYPE LUG, 1 MTR SS
BRAIDED TEFLON COATED CABLE

60	194300382017-"THERMOCOUPLE, K,DUPLEX,OD-8MM,L=22 MTR" THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321 ,LENGTH=22 MTR, SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL PVC INSULATED FLEXIBLE CABLE, COLOUR CODE: YELLOW(+) RED(-), PIN TYPE LUG	6	NO			
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SPECIFICATION:
THERMOCOUPLE, TYPE-K,DUPLEX, PROTECTED SHEATH DIA.-8 MM MATERIAL-SS321
,LENGTH=22 MTR T/C-CLASS-1 AS PER ANSI MC 96.1,IR- >100 OHM @
500VDC.SLIDING END CONNECTION 1/2"BSP(M) ADJUSTABLE COMPONENT
FERRULE FITTING, MATERIAL- SS310, CHECKNUT, WASHER, LONG PTFE OVERALL
PVC INSULATED FLEXIBLE CABLE, COLOUR CODE: YELLOW(+) RED(-), PIN TYPE LUG, 1 MTR SS
BRAIDED TEFLON COATED CABLE

70	194300382051-THERMOCOUPLE,R,EL(M M)=300,IL(MM)=1200	4	NO			
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	PT-RH-PT "R" TYPE THERMOCOUPLE WITH FLANGED THERMOWELL (INCONEL-800)EL (MM)=300 IL(MM)=1200					
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SPECIFICATION:
SIMPLEX HEAD TYPE THERMOCOUPLE,ELEMENT- R-TYPE (Pt-Rh 13% Pt) MgO INSULATED,UNGROUND TYPE,WIRE SIZE-24 AWG,ACCURACY OF T/C-CLASS-1 AS PER ANSI MC 96.1,IR- >100 OHM @ 500VDC, CONNECTING HEAD-IP67 DIE CAST ALLUMINIUM,CERAMIC BLOCK BRASS NI PLATED SPRING LOADED TERMINAL,STEM LENGTH-1200 MM ,INSERTION LENGTH-800MM,EXTENDED LENGTH-400 MM,ELEMENT OD-8MM.
THERMOWELL- LENGTH-1200 MM,OD-21 MM ID-13.87,THERMOWELL-CERAMIC PROTECTION TUBE ,HOLDING TUBE-SS316 , FLANGE-1.5" ANSI B16.5 150#RF ADJ. FLANGE,OD-127MM,PCD-98.6MM,4 HOLES 15.7MM,TH:17.5,RF-73.2,RFT-1.6MM.MOC-ASTM105,NUT BOLTS SS304.MAX TEMP-UPTO 1400 DEG C

80	194300160052-MOTOR BEARING RTD, FOR MILL,DMCW,CEP,ACW MOTOR BEARING RTD,RTD PT 100 FOR MOTOR BEARING TEMPERATURE MONITORING,CONFIGURATION: HEAD LESS ASSEMBLY,ELMENT TYPE: RTD PT 100,NO OF ELEMENT: DUPLEX,CALIBRATION STANDARD: As per IEC 60751,ACCURACY CLASS: Class A,INSULATION: MgO Filled ,NO OF WIRES : 4 wire,SHEATH LENGTH: 60mm,TIP O.D.: 12mm,COLLAR OD : 16mm,COLLAR THICKNESS : 4mm TIP,M.O.C : SS 316 CABLE : 5mtr Long PTFE/PTFE/SS Braided Cable ",FOR MILL,DMCW,CEP,ACW, Vendor should take the drawing approval before sending the material	10	NO			
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SPECIFICATION:
MOTOR BEARING RTD,RTD PT 100 FOR MOTOR BEARING TEMPERATURE MONITORING,CONFIGURATION: HEAD LESS ASSEMBLY,ELMENT TYPE: RTD PT 100,NO OF ELEMENT: DUPLEX,CALIBRATION STANDARD: As per IEC 60751,ACCURACY CLASS: Class A,INSULATION: MgO Filled ,NO OF WIRES : 4 wire,SHEATH LENGTH: 60mm,TIP O.D.: 12mm,COLLAR OD : 16mm,COLLAR THICKNESS : 4mm TIP,M.O.C : SS 316 CABLE : 5mtr Long PTFE/PTFE/SS Braided Cable ",FOR MILL,DMCW,CEP,ACW.
NOTE-VENDOR HAS TO SUBMIT DRAWINGS FOR APPROVAL BEFORE MANUFACTURING

90	194300360003-Thermowell,Bar stock,IL-70MM,OD-16MM Straight Thermowell,Immersion	6	NO			
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	length-70mm, Thread length-30 mm, Thermowell OD-16mm , Connection-1" BSP, MOC-SS-316, Suitable for 6mm OD RTD connection-1/2" NPT,					
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SPECIFICATION:
Straight Thermowell, Immersion length-70mm, Thread length-30 mm, Thermowell OD-16mm , Connection-1" BSP, MOC-SS-316, Suitable for 6mm OD RTD connection-1/2" NPT,
Vendor has to submit the drawing for approval before manufacturing.

100	194300360004-Thermowell, Bar stock, IL-350MM, OD-20MM Straight Thermowell, Length-350mm, Material-Ferrotic alloy with 1mm tungsten Carbide coating, Suitable for 8mm OD , 1/2" BSP M thermocouple connection , Process connection-1" BSP male, OD-22MM with coating ID-9MM, Along with 1" BSP Female socket, LENGTH-50MM, OD-45MM, ID-22MM, MOC-SS-316.	10	NO			
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SPECIFICATION:
Straight Thermowell, Length-350mm, Material-Ferrotic alloy with 1mm tungsten Carbide coating, Suitable for 8mm OD , 1/2" BSP M thermocouple connection , Process connection-1" BSP male, OD-22MM with coating ID-9MM, Along with 1" BSP Female socket, LENGTH-50MM, OD-45MM, ID-22MM, MOC-SS-316.
Vendor has to submit the drawing for approval before manufacturing.

110	194300380026-HEADLESS T/C, K-TYP DUPLEX, IL-350MM, 30MTR Cr-Al K-type duplex Headless thermocouple , ungrounded, MgO insulated, Accuracy of T/C-CLASS-1 AS PER ANSI MC 96.1, IR- >100 OHM @ 500VDC , OD-8mm, Insertion length-350 mm (Adjustable), Process connection-1/2" BSP (M) , Sheath material SS-316, Mineral insulated cable, Length- 30 mtr , 6mm OD MOC-SS-304	10	NO			
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SPECIFICATION:
Cr-Al K-type duplex Headless thermocouple , ungrounded, MgO insulated, Accuracy of T/C-CLASS-1 AS PER ANSI MC 96.1, IR- >100 OHM @ 500VDC , OD-8mm, Insertion length-350 mm (Adjustable), Process connection-



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1/2" BSP (M) ,Sheath material SS-316,Mineral insulated cable,Length- 30 mtr ,8mm OD MOC-SS-304.Flexible cable for termination-1 mtr teflon Coated.

Vendor has to submit the drawing for approval before manufacturing.

120	194300382048-THERMOCOUPLE,K,EL(M)=300,IL(MM)=1200 THERMOCOUPLE 'K' TYPE WITH FLANGED THERMOWELL (SS 316)EL(MM)=300 IL(MM)=1200	12	NO			
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SPECIFICATION:

DUPLEX HEAD TYPE THERMOCOUPLE,ELEMENT- K-TYPE (Cr-AI) MgO INSULATED,UNGROUND TYPE,ACCURACY OF T/C-CLASS-1 AS PER ANSI MC 96.1,IR- >100 OHM @ 500VDC, CONNECTING HEAD-IP67 DIE CAST ALLUMINIUM WITH EPOXY COATING,CERAMIC BLOCK BRASS NI PLATED SPRING LOADED TERMINAL,STEM LENGTH-1500 MM ,INSERTION LENGTH-1200MM,EXTENDED LENGTH-300 MM,ELEMENT OD-8MM.THERMOWELL- (3/4" SCH-80S) LENGTH-1500 MM,OD-26.7MM ID-18.8,THERMOWELL-SS316,BAR STOCK TIP -SS316, OD x ID xL-26.7MMx9MMx100MM,WITH 1MM TUNGSTEN CARBIDE COATING,FLANGE-1.5" ANSI B16.5 150#RF ADJ. FLANGE,OD-127MM,PCD-98.6MM,4 HOLES 15.7MM,TH:17.5,RF-73.2,RFT-1.6MM.MOC-ASTM105,NUT BOLTS SS304.GASKET-COMPRESSED FIBRE STYLE-20.

NOTE-VENDOR HAS TO SUBMIT DRAWINGS FOR APPROVAL BEFORE MANUFACTURING

130	194300160017-RTD,OD-8 MM,L-115MM,L1-75MM,1/2"NPT(M) RTD PT 100,Sheath material-SS316,OD-8 MM,Element type-PT100 Class A,configuration-Duplex 4 wire,insulation-Mineral insulated Mgo,Extention lead-copper,Extention-Nipple Material SS,Length(L)-115MM,Length(L1)- 75MM,Connection-1/2"NPT(M),Cold junction-Cast aluminium connection head,spring loaded with nickel plated brass terminals,BHEL HYD MAT CODE- FP9750609018,FOR BP DE&NDE JRNL BRG TEMP,without thermowell	2	NO			
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Specification:

RTD PT 100,Sheath material-SS316,OD-8 MM,Element type-PT100 Class
A,configuration-Duplex 4 wire,insulation-Mineral insulated Mgo,Extention lead-copper,Extention-Nipple Material SS,Length(L)-115MM,Length(L1)- 75MM,Connection-1/2"NPT(M),Cold junction-Cast aluminium connection head,spring loaded with nickel plated brass terminals,BHEL HYD MAT CODE- FP9750609018,FOR BP DE&NDE JRNL BRG TEMP,without thermowell.



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Vendor has to submit the drawing for approval before manufacturing.

140	194300160018-RTD,OD-12 MM,L-155MM,L1-75MM,1/2"NPT(M) RTD PT 100,Sheath material-SS316,OD-12MM,Element type-PT100 Class A,configuration-Duplex 4 wire,insulation-Mineral insulated Mgo,Extention lead-copper,Extention-Nipple Material SS,Length(L)-155MM,Length(L1)- 75MM,Connection-1/2"NPT(M),Cold junction-Cast aluminium connection head,spring loaded with nickel plated brass terminals,BHEL HYD MAT CODE- FP9750609026,FOR BP & BFP SEAL WATER TEMP,without thermowell	4	NO			
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Specification:

RTD PT 100,Sheath material-SS316,OD-12MM,Element type-PT100 Class
A,configuration-Duplex 4 wire,insulation-Mineral insulated Mgo,Extention lead-copper,Extention-Nipple Material
SS,Length(L)-155MM,Length(L1)- 75MM,Connection-1/2"NPT(M),Cold junction-Cast aluminium connection
head,spring loaded with nickel plated brass terminals,BHEL HYD MAT CODE- FP9750609026,FOR BP & BFP
SEAL WATER TEMP,without thermowell

Vendor has to submit the drawing for approval before manufacturing.

150	194300160019-RTD,OD-12 MM,L-140MM,L1-75MM,1/2"NPT(M) RTD PT 100,Sheath material-SS316,OD-12MM,Element type-PT100 Class A,configuration-Duplex 4 wire,insulation-Mineral insulated Mgo,Extention lead-copper,Extention-Nipple Material SS,Length(L)-140MM,Length(L1)- 75MM,Connection-1/2"NPT(M),Cold junction-Cast aluminium connection head,spring loaded with nickel plated brass terminals,BHEL HYD MAT CODE- FP9750609093,FOR BP,MTR,BFP OIL DRAIN TEMP,without thermowell	3	NO			
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Specification:

RTD PT 100,Sheath material-SS316,OD-12MM,Element type-PT100 Class
A,configuration-Duplex 4 wire,insulation-Mineral insulated Mgo,Extention
lead-copper,Extention-Nipple Material SS,Length(L)-140MM,Length(L1)-



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75MM, Connection-1/2"NPT(M), Cold junction-Cast aluminium connection head, spring loaded with nickel plated brass terminals, BHEL HYD MAT CODE- FP9750609093, FOR BP, MTR, BFP OIL DRAIN TEMP, without thermowell

Vendor has to submit the drawing for approval before manufacturing.

160	194300160021-RTD, OD-10 MM, L-230MM, L1-75MM, 1/2"NPT(M) RTD PT 100, Sheath material-SS316, OD-10 MM, Element type-PT100 Class A, configuration-Duplex 4 wire, insulation-Mineral insulated Mgo, Extention lead-copper, Extention-Nipple Material SS, Length(L)-230 MM, Length(L1)-75 MM, Connection-1/2"NPT(M), Cold junction-Cast aluminium connection head, spring loaded with nickel plated brass terminals , BHEL HYD MAT CODE-FP9750609042, FOR BFP DISCH TEMP, without thermowell	2	NO			
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Specification:

RTD PT 100, Sheath material-SS316, OD-10 MM, Element type-PT100 Class A, configuration-Duplex 4 wire, insulation-Mineral insulated Mgo, Extention lead-copper, Extention-Nipple Material SS, Length(L)-230 MM, Length(L1)-75 MM, Connection-1/2"NPT(M), Cold junction-Cast aluminium connection head, spring loaded with nickel plated brass terminals , BHEL HYD MAT CODE-FP9750609042, FOR BFP DISCH TEMP, without thermowell

Vendor has to submit the drawing for approval before manufacturing.

170	194300160053-MOTOR BEARING RTD, FOR ID, FD, PA MOTOR BEARING RTD, RTD PT 100 FOR MOTOR BEARING TEMPERATURE MONITORING, CONFIGURATION: HEAD LESS ASSEMBLY, ELEMENT TYPE: RTD PT 100, NO OF ELEMENT: DUPLEX, ACCURACY CLASS: Class A, , NO OF WIRES : 4 wire, SHEATH LENGTH: 40mm WITH END SHALED WITH EPOXY RESIN, TIP O.D.: 13mm, AFTER SHEATH OD: 10MM, LENGTH-350MM, WITH SLIDING FILLING 1/2"BSP MADE OF NYLON WASHER MOULDED WITH	10	NO			
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	<p>GLAND,CABLE : 6mtr Long ,THE SHEATH:COVERING OF THE INSTRUMENT SHOULD BE MILD STEEL/BRASS SUITABLE FOR PROTECTING THE ELEMENT FROM MECHANICAL DAMAGE,COMPLETE SHEATH TO BE COVERED WITH INSULATING SLEEVE AND LEADS TO BE INSULATED AS PER DEATAILS OF DRAWING SEC-AA,THE COMPLETE ASSEMBLY SHOULD BE INSULATED AGAINST ITS MOUNTINGS FOR WHICH BULB SHOULD BE INSULATED,GLAND NUT ETC TO BE MADE OF ELECTRICALLY INSULATED ,MATERIAL OF INSULATION SHOULD BE CAPABLE OF WITHSTANDING A TEST VOLTAGE OF 2.0KV FOR 1 MIN,DRAWING ATTACHED FOR REFERENCE ,FOR ID/FD/PA, Vendor should take the drawing approval before sending the material.</p>					
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SPECIFICATION-

MOTOR BEARING RTD,RTD PT 100 FOR MOTOR BEARING TEMPERATURE MONITORING,CONFIGURATION: HEAD LESS ASSEMBLY,ELMENT TYPE: RTD PT 100,NO OF ELEMENT: DUPLEX,ACCURACY CLASS: Class A, ,NO OF WIRES : 4 wire,SHEATH LENGTH: 40mm WITH END SHALED WITH EPOXY RESIN,TIP O.D.: 13mm,AFTER SHEATH OD:10MM,LENGTH-350MM,WITH SLIDING FILLING 1/2"BSP MADE OF NYLON WASHER MOULDED WITH GLAND,CABLE : 6mtr Long ,THE SHEATH:COVERING OF THE INSTRUMENT SHOULD BE MILD STEEL/BRASS SUITABLE FOR PROTECTING THE ELEMENT FROM MECHANICAL DAMAGE,COMPLETE SHEATH TO BE COVERED WITH INSULATING SLEEVE AND LEADS TO BE INSULATED AS PER DEATAILS OF DRAWING SEC-AA,THE COMPLETE ASSEMBLY SHOULD BE INSULATED AGAINST ITS MOUNTINGS FOR WHICH BULB SHOULD BE INSULATED,GLAND NUT ETC TO BE MADE OF ELECTRICALLY INSULATED ,MATERIAL OF INSULATION SHOULD BE CAPABLE OF WITHSTANDING A TEST VOLTAGE OF 2.0KV FOR 1 MIN,DRAWING ATTACHED FOR REFERENCE ,FOR ID/FD/PA, Vendor should take the drawing approval before Manufacturing.

180	<p>194300160030-RTD,OD-3MM,L-80MM,L1-110MM,1/2"NPT(M) RTD PT 100,Sheath material-SS316,Sheath dia-3 mm,Element type-PT100 Class A,configuration-Simplex 4 wire,insulation-Ceramic braded with Mgo powder filling,Extention</p>	6	NO			
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	lead-copper,Extention-Nipple Material SS,Length (L)-80 MM,Length(L1)-110 MM,Total length-4 MTR,Cold end termination-with hard crimp with 30 MM long individual and overall teflon insulated with SS braided extension cable with SS sleeve length 100mm with SS316 adjustable union thread M20X1.5(M) with SS bush and viton bush with crimp on pot and individual teflon insulated and overall teflon insulated cable,Fitting-1/2"NPT(M) ,BHEL HYD MAT CODE-FP9750593030,FOR BFP THRUST BRG,without thermowell					
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Specification:

RTD PT 100,Sheath material-SS316,Sheath dia-3 mm,Element type-PT100 Class A,configuration-Simplex 4 wire,insulation-Ceramic braded with Mgo powder filling,Extention lead-copper,Extention-Nipple Material SS,Length (L)-80 MM,Length(L1)-110 MM,Total length-4 MTR,Cold end termination-with hard crimp with 30 MM long individual and overall teflon insulated with SS braided extension cable with SS sleeve length 100mm with SS316 adjustable union thread M20X1.5(M) with SS bush and viton bush with crimp on pot and individual teflon insulated and overall teflon insulated cable,Fitting-1/2"NPT(M) ,BHEL HYD MAT CODE-FP9750593030,FOR BFP THRUST BRG,without thermowell

Vendor has to submit the drawing for approval brfore manufacturing.

190	194300380073-WELD PAD,FOR 8 MM OD THEMOCOUPLE AND RTD WELD PAD,FOR 8 MM OD THEMOCOUPLE AND RTD,DIMENSON:25MMX25MMX5MM,MO C-SS316,WITH 2 NOS OF CLAMP WITH EACH PAD AS PER OUR DRAWING	100	NO			
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SPECIFICATION:

WELD PAD,FOR 8 MM OD THEMOCOUPLE AND RTD,DIMENSON:25MMX25MMX5MM,MOC-SS316,WITH 2 NOS OF CLAMP WITH EACH PAD

Vendor shoud take the drawing approval before Manufacturing.

200	194300642018-"TEMP GAUGE 0-200 DEG.C 1/2"NPT(M) CONN TEMPERATURE GAUGE,MODEL-CAPILLARY TYPE,PROCESS CONNECTION -1/2"NPT (M),BACK ENTRY,PANEL MOUNTED, DIAL SIZE-150 MM,ACCURACY- +/- 1%	10	NO			
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	OF FSD,RANGE-0-200 DEG C ,ALL PART SS-316,MOVEMENT MATERIAL-SS 304,BULB DIA-12 MM STEM LENGTH- 300 MM,CAPILLARY LENGTH-12 MTRS +SS ARMOURED +PVC.OVER RANGE-130% OF FSD,SHATTER PROOF GLASS,					
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SPECIFICATION:

TEMPERATURE GAUGE,MODEL-CAPILLARY TYPE,PROCESS CONNECTION -1/2"NPT(M),BACK ENTRY,PANEL MOUNTED, DIAL SIZE-150 MM,ACCURACY- +/- 1% OF FSD,RANGE-0-200 DEG C ,ALL PART SS-316,MOVEMENT MATERIAL-SS 304,BULB DIA-12 MM STEM LENGTH- 300 MM,CAPILLARY LENGTH-12 MTRS +SS ARMOURED +PVC.OVER RANGE-130% OF FSD,SHATTER PROOF GLASS

210	194300642019-TEMP GAUGE 0-200 DEG C 3/4"NPT(M) CAPILL TEMPERATURE GAUGE,MODEL-CAPILLARY TYPE,PROCESS CONNECTION -3/4"NPT (M),BACK ENTRY,PANEL MOUNTED, DIAL SIZE-150 MM,ACCURACY- +/- 1% OF FSD,RANGE-0-200 DEG C ,ALL PART SS-316,MOVEMENT MATERIAL-SS 304,BULB DIA- 10MM,STEM LENGTH-175 MM, CAPILLARY LENGTH-12 MTRS +SS ARMOURED +PVC .OVER RANGE-130% OF FSD,SHATTER PROOF GLASS,	10	NO			
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SPECIFICATION:

TEMPERATURE GAUGE,MODEL-CAPILLARY TYPE,PROCESS CONNECTION -3/4"NPT(M),BACK ENTRY,PANEL MOUNTED, DIAL SIZE-150 MM,ACCURACY- +/- 1% OF FSD,RANGE-0-200 DEG C ,ALL PART SS-316,MOVEMENT MATERIAL-SS 304,BULB DIA- 10MM,STEM LENGTH-175 MM, CAPILLARY LENGTH-12 MTRS +SS ARMOURED +PVC .OVER RANGE-130% OF FSD,SHATTER PROOF GLASS,

220	194300642020-"TEMP GAUGE 0-120 DEG.C 1/2""NPT(M) CONN TEMPERATURE GAUGE,MODEL-CAPILLARY TYPE,PROCESS CONNECTION -1/2"NPT (M),BACK ENTRY,PANEL MOUNTED, DIAL SIZE-150 MM,ACCURACY- +/- 1% OF FSD,RANGE-0-120 DEG C ,ALL PART SS-316,MOVEMENT MATERIAL-SS 304,BULB DIA-12MM,STEM LENGTH-250	10	NO			
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	MM,CAPILLARY LENGTH-12 MTRS +SS ARMOURED +PVC.OVER RANGE-130% OF FSD,SHATTER PROOF GLASS,					
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SPECIFICATION:

TEMPERATURE GAUGE,MODEL-CAPILLARY TYPE,PROCESS CONNECTION -1/2"NPT(M),BACK ENTRY,PANEL MOUNTED, DIAL SIZE-150 MM,ACCURACY- +/- 1% OF FSD,RANGE-0-120 DEG C ,ALL PART SS-316,MOVEMENT MATERIAL-SS 304,BULB DIA-12MM,STEM LENGTH-250 MM,CAPILLARY LENGTH-12 MTRS +SS ARMOURED +PVC.OVER RANGE-130% OF FSD,SHATTER PROOF GLASS

230	194300642042-TEMP GAUGE,BIMETALC,0-400#C,L-310mm BI-METALLIC TEMPERATURE GAUGE,DIAL SIZE:6",RANGE:0-400DegC,TOTAL STEM LENGTH INCLD.GLAND:360MM,LENGTH:310MM,S TEM OD-6MM,WITH 1/2" NPT(M) SLIDING FITTING	10	NO			
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SPECIFICATION:

BI-METALLIC TEMPERATURE GAUGE,DIAL SIZE:6",RANGE:0-400DegC,TOTAL STEM LENGTH INCLD.GLAND:360MM,LENGTH:310MM,STEM OD-6MM,BOTTOM ENTRY,WITH 1/2" NPT(M) SLIDING FITTING WITH FERRULE,ACCURACY- +/- 1% OF FSD ,ALL PART SS-316,MOVEMENT MATERIAL-SS 304,,SHATTER PROOF GLASS

240	194300640009-TEMP GAUGE GAS FILLED,CAP,0-120 DEG,FAN TEMPERATURE GAUGE GAS FILLED CAPILLARY TYPE,PROCESS CONNECTION -1/2"NPT(M) ADJ.FERRULE FITTING ,BOTTOM ENTRY,PANEL MOUNTED, DIAL SIZE-150 MM,ACCURACY- +/- 1% OF FSD,RANGE-0-120 DEG C ,ALL PART SS-316,MOVEMENT MATERIAL-SS 304,BULB DIA-08 mm,STEM LENGTH-180 MM,CAPILLARY LENGTH-05 MTRS +SS COVERED +PVC .OVER RANGE-130% OF FSD,SHATTER PROOF GLASS,GREEN MARKING UPTO 70 DEGC THEN YELLOW MAARKING FROM 70-90 DEGC THEN RED MATKING 90-120 DEG C,FAN BRG	10	NO			
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SPECIFICATION:



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TEMPERATURE GAUGE GAS FILLED CAPILLARY TYPE, PROCESS CONNECTION -1/2"NPT(M) ADJ.FERRULE FITTING ,BOTTOM ENTRY,PANEL MOUNTED, DIAL SIZE-150 MM,ACCURACY- +/- 1% OF FSD,RANGE-0-120 DEG C ,ALL PART SS-316,MOVEMENT MATERIAL-SS 304,BULB DIA-08 mm,STEM LENGTH-180 MM,CAPILLARY LENGTH-05 MTRS +SS COVERED +PVC .OVER RANGE-130% OF FSD,SHATTER PROOF GLASS,GREEN MARKING UPTO 70 DEGC THEN YELLOW MAARKING FROM 70-90 DEGC THEN RED MATKING 90-120 DEG C,FAN BRG

250	194300642055-TEMP GAUGE,BIMETALC,0-200#C,L-265MM BI-METALLIC TEMPERATURE GAUGE,DIAL SIZE:6",RANGE:0-200DegC,TOTAL STEM LENGTH INCLD.GLAND:315MM,LENGTH:265MM,S TEM OD-6MM,WITH 1/2" NPT(M) SLIDING FITTING	6	NO			
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SPECIFICATION:

BI-METALLIC TEMPERATURE GAUGE,DIAL SIZE:6",RANGE:0-200DegC,TOTAL STEM LENGTH INCLD.GLAND:315MM,LENGTH:265MM,STEM OD-6MM,BOTTOM ENTRY,WITH 1/2" NPT(M) SLIDING FITTING WITH FERRULE,ACCURACY- +/- 1% OF FSD ,ALL PART SS-316,MOVEMENT MATERIAL-SS 304,,SHATTER PROOF GLASS

260	194300642011-TEMP GAUGE,BIMETALLIC,0-300°C, IL:280MM "BIMETALLIC TEMPREATURE GAUGE with THERMOWELL Accuracy: 1.0% FSD, Connection: (4NM) 1/2""NPT(M), Mounting: Ever Angle Back Entry, Dial Size: 125mm, Over pressure limit: 15 KGSC, Overrange Limit: 130% of FSD, Protection: IP65, Dial: Aluminium-Black Graduation on White Background, Scale: White background with scale of 270# Arc, Pointer: Aluminium-Black Coloured Micrometer Zero Adjustable, Sensing Element: Bimetal Strip Helix,Stem Dia: 8mm, Stem Lenght: 280mm, Span: 0-300°C. Make: Baumer, Gauge Model: CB-G-8-4NM-ZI-2C-280MM-0-300°C-RX- SX PW"	14	NO			
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270	194300642064-TEMP GAUGE,BIMETALC,0-400#C,L-215MM BI-METALLIC TEMPERATURE GAUGE,DIAL SIZE:6",RANGE:0-400DegC,TOTAL	6	NO			
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	STEM LENGTH INCLD.GLAND:265MM,LENGTH:215MM,					
280	194300160016-Headless RTD,4-Wire Duplex,150mm,30mtr "Headless RTD ,Element- 4-Wire Duplex. Sheath Material-SS-316,Sheath Dia: 6 mm, Process connection -1/2"NPT. with 30 mtr MI cable outer layer-SS316. ,1mtr PTFE insulated extension cable,Insertion Length:150 mm adjustable, IR at ambient Temp: >100MÜ @500 VDC, Response Time: <10s,Accuracy: Class-A, Characteristic: Linear with respect to temp within +/- 0.5% of Top Range.	10	NO			
290	194300161030-CLASSIFIR RTD TX 276-B SPECIFICATION:- Type:- RTD Pt-100 for Classifier,Element: Duplex,No.of Wire: 3-Wire System.,Protection Sheath Material:- AISI 316,Length: EXT/IMM 160/250mm,Electrical Conn:- 1/2" BSP(F),THERMO WELL:-DRILLED FROM BARSTOCK,TYPE: STRAIGHT, T/W OD : 16mm, T/W ID : 7mm,MATERIAL: SS 316 with TUNGSTEN CARBIDE COATED OF 1MM THK,Coating process : Atleast 3 layer of coating to avoid problems of dilution of base metal in coating, PROCESS CONNECTION:-FLANGED ANSI-B 16.5 / 1981 CLASS 150 LBS, 11/4",Media:COAL+AIR TEMP AT MILL CLASSIFIER O/L.	25	EA			
SPECIFICATION:- Type:- RTD Pt-100 for Classifier,Element: Duplex,No.of Wire: 3-Wire System.,Protection Sheath Material:- AISI 316,Length: EXT/IMM 160/250mm,Electrical Conn:- 1/2" BSP(F),THERMO WELL:-DRILLED FROM BARSTOCK,TYPE: STRAIGHT, T/W OD : 16mm, T/W ID : 7mm,MATERIAL: SS 316 with TUNGSTEN CARBIDE COATED OF 1MM THK,Coating process : Atleast 3 layer of coating to avoid problems of dilution of base metal in coating, PROCESS CONNECTION:-FLANGED ANSI-B 16.5 / 1981 CLASS 150 LBS, 11/4",Media:COAL+AIR TEMP AT MILL CLASSIFIER O/L.						
300	194300161028-TC & RTD TX 306A SPECIFICATION:- SERVICE: APH O/L TEMP FOR FLUE GAS,TYPE: RTD Pt-100 DUPLEX,PACKED CONNECTOR: MgO,PROT.SHEATH MAT: AISI 316 SS,SHEATH OD: 6 MM,ACCURACY:	6	EA			



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	<p>CLASS B CONFORMING TO DIN43760,RESPONSE TIME: 10 SECS OR BETTER WITHOUT THERMO-WELL 40 SECS OR BETTER WITH THERMO-WELL,HEAD: CAST ALUMINIUM WITH SCREWED CAP,GASKET & GALVANISED CHAIN,#SPRING LOADED CERAMIC TERMINAL BLOCK WITH SILVER PLATED BRASS TERMINALS,PROTECTION:# IP-67,TEMP RANGE:# 0 to 250 °C,OPERATING TEMPERATURE: 150 °C ,THERMOWELL:-CONSTRUCTION: DRILLED BARSTOCK, TYPE: STRAIGHT (FOR AIR & FLUE GAS SYSTEM),MATERIAL:A. 316 SS,TUNGSTEN CARBIDE COATED(SERVICE :AIR & MILL AREA),B. COATED THICKNESS: 1 MM(Min),C. 316 SS,PROCESS MEDIA-FLUE GAS,PROCESS PRESSURE: -200 to 300 MMWC,PROCESS CONNECTION: F: DENOTES FLANGED-ANSI-B 16.5/1981 CLASS 150## LBS, 1 ¼., INSTRUMENT CONNECTION: ½" BSP (F),APPLICABLE STD FOR T/W: ASMF PTC 19.3, LATEST REVISION,EXT / IMM LENGTH IN MM: 300 / 1200 MM., IR VALUE AT ROOM TEMP: MORE THAN 100 MEGA OHMS AT 500VDC ,ACCESSORIES: BOLTS, NUTS & GASKETS FOR FLANGED CONNECTION.</p>					
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SPECIFICATION:- SERVICE: APH O/L TEMP FOR FLUE GAS,TYPE: RTD Pt-100 DUPLEX,PACKED CONNECTOR: MgO,PROT.SHEATH MAT: AISI 316 SS,SHEATH OD: 6 MM,ACCURACY: CLASS B CONFORMING TO DIN43760,RESPONSE TIME: 10 SECS OR BETTER WITHOUT THERMO-WELL 40 SECS OR BETTER WITH THERMO-WELL,HEAD: CAST ALUMINIUM WITH SCREWED CAP,GASKET & GALVANISED CHAIN,#SPRING LOADED CERAMIC TERMINAL BLOCK WITH SILVER PLATED BRASS TERMINALS,PROTECTION:# IP-67,TEMP RANGE:# 0 to 250 °C,OPERATING TEMPERATURE: 150 °C ,THERMOWELL:-CONSTRUCTION: DRILLED BARSTOCK, TYPE: STRAIGHT (FOR AIR & FLUE GAS SYSTEM),MATERIAL:A. 316 SS,TUNGSTEN CARBIDE COATED(SERVICE :AIR & MILL AREA),B. COATED THICKNESS: 1 MM(Min),C. 316 SS,PROCESS MEDIA-FLUE GAS,PROCESS PRESSURE: -200 to 300 MMWC,PROCESS CONNECTION: F: DENOTES FLANGED-ANSI-B 16.5/1981 CLASS 150## LBS, 1 ¼., INSTRUMENT CONNECTION: ½" BSP (F),APPLICABLE STD FOR T/W: ASMF PTC 19.3, LATEST REVISION,EXT / IMM LENGTH IN MM: 300 / 1200 MM., IR VALUE AT ROOM TEMP: MORE THAN 100 MEGA OHMS AT 500VDC ,ACCESSORIES: BOLTS, NUTS & GASKETS FOR FLANGED CONNECTION.

310	<p>194300161037-PT100 DUPLEX 1MM L=150MM MILL MAIN (MSR) SPECIFICATION:- PT100 DUPLEX 1MM L=150MM MILL MAIN (MSR)RTD</p>	10	EA			
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**ODISHA POWER GENERATION CORPORATION LIMITED
IB THERMAL POWER STATION
PURCHASE DEPARTMENT**

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Tele Fax No. 06645-289-355, Tel No. 06645-289-354/355/356
Email: purchase@opgc.co.in

	(Sheath Material/Dia -SS316/8mm, Elemt-pt100 As per Din 437060 100 ohms At 0 Deg C Tolerance As per din 43760#, Class B I e +/-0.12ohm at 0deg C configuration duplex 3 wire. Accuracy class B, Process connection-1/2" BSP(M), Adjustable fitting System. Service:- MILL MAIN (MSR) & PA Fan Brg temp RTD					
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SPECIFICATION:- PT100
 DUPLEX 1MM L=150MM MILL MAIN (MSR)RTD
 (Sheath Material/Dia -SS316/8mm, Elemt-pt100 As per Din 437060 100 ohms At 0 Deg C Tolerance As per din 43760#, Class B I e +/-0.12ohm at 0deg C configuration duplex 3 wire. Accuracy class B, Process connection-1/2" BSP(M), Adjustable fitting System. Service:- MILL MAIN (MSR) & PA Fan Brg temp RTD

320	194300381083-THERMOCOUPLE FOR MILL SUPPORT BEARING "SPECIFICATION:- THERMOCOUPLE: - ELEMENT: CR/AL ""K"" TYPE, TYPE: DUPLEX UNGROUNDED, HEAD: DIE CAST ALU. IP-67 TERMINAL & CERAMIC BLOCK, CABLE ENTRY: 1/2"" Npt(F) WITH CABLE GLAND, End Conn.: 1/2"" BSP(M) FIXED COMP. FITTING, STANDARD: CALI: ANSI MC IEC-584, INSUALTION: MINERAL INSULATED WITH COMP. MGO, SHEATH MATERIAL: SS-316, SHEATH DIA: 3MM MTG: BAYONUT WITH M10X1(M) thread LOCKNUT (ADJ. ON SPRING , LENGTH: 51MM) WITH TUBE ODXLENGTH: 6MMX100MM & STOPPER ODXTHK.: 7.5MMX3.5MM EXT. LENGTH: 1150MM (80MM+970MM+100MM) IMM. LENGTH: 150MM, SHEATH LENGTH: 1300MM BELOW HEAD, Temp. Range: 0 to 150 Deg.C,"	6	EA			
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"SPECIFICATION:-
 THERMOCOUPLE: - ELEMENT: CR/AL ""K"" TYPE,
 TYPE: DUPLEX UNGROUNDED, HEAD: DIE CAST ALU. IP-67 TERMINAL & CERAMIC BLOCK, CABLE ENTRY: 1/2"" Npt(F) WITH CABLE GLAND,
 End Conn.: 1/2"" BSP(M) FIXED COMP. FITTING, STANDARD: CALI: ANSI MC IEC-584, INSUALTION: MINERAL INSULATED WITH COMP. MGO,
 SHEATH MATERIAL: SS-316, SHEATH DIA: 3MM MTG: BAYONUT WITH M10X1(M) thread LOCKNUT (ADJ. ON SPRING , LENGTH: 51MM)
 WITH TUBE ODXLENGTH: 6MMX100MM & STOPPER ODXTHK.: 7.5MMX3.5MM EXT. LENGTH: 1150MM (80MM+970MM+100MM)
 IMM. LENGTH: 150MM, SHEATH LENGTH: 1300MM BELOW HEAD,
 Temp. Range: 0 to 150 Deg.C,"



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330	194300381033-K TYPE T/C 400/1000 WITH THERMO WELL SPECIFICATION:- Type: K Type T/C 400/1000 with Thermowell,(Thermocouple with head IP-67 terminals & ceramic Block Element CR/AL "K" Type simplex ungrounded),EXT / IMM# LEANTH:# 400/1000 mm.#OD-22 MM,cali, ANSIMC 96.1, Insumineral Insulated, Dia, 6mm, sheath, SS316,T/W, SS316, Straight, Drilled Bar Stock, Tungston carbide coating of 1mm thickness,#process conn; Flarge, ANSI-B 16.5/198/Class 150 LBS 1&1/4" Inst corn 182" BSP (F), Accessories:Bolts,Nuts, Gasket For Flange Connection,Medium:Flue Gas,Service:-APH inlet TCs.	7	EA			
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SPECIFICATION:- Type: K
 Type T/C 400/1000 with Thermowell,(Thermocouple with head IP-67 terminals & ceramic Block Element CR/AL "K" Type simplex ungrounded),EXT / IMM# LEANTH:# 400/1000 mm.#OD-22 MM,cali, ANSIMC 96.1, Insumineral Insulated, Dia, 6mm, sheath, SS316,T/W, SS316, Straight, Drilled Bar Stock, Tungston carbide coating of 1mm thickness,#process conn; Flarge, ANSI-B 16.5/198/Class 150 LBS 1&1/4" Inst corn 182" BSP (F), Accessories:Bolts,Nuts, Gasket For Flange Connection,Medium:Flue Gas,Service:-APH inlet TCs.

340	194300381015-PA Flow Comp TempT/C SPECIFICATION:- Type: K Type T/C 160/400 mm with Thermowell#,OD-21 MM,(Thermocouple with head IP-67 terminals & ceramic Block Element CR/AL "K" Type Duplex ungrounded),EXT/IMM# LEANTH:# 160/400 mm.Tungston carbide coating of 1mm thickness Temp Range -0-600 Deg C,cali, ANSIMC 96.1 Insumineral Insulated, Dia :6mm, sheath :SS316,T/W :SS316, Straight Drilled Bar Stock Tungston carbide coating of 1mm thickness, process conn :Flarge ANSI-B 16.5/198/Class 150 LBS 1&1/4" Inst corn 1/2" BSP (F),Accessories:Bolts,Nuts, Gasket For Flange Connection,Medium : Hot AIR	8	EA			
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SPECIFICATION:- Type: K
 Type T/C 160/400 mm with Thermowell#,OD-21 MM,(Thermocouple with head IP-67 terminals & ceramic Block Element CR/AL "K" Type Duplex ungrounded),EXT/IMM# LEANTH:# 160/400 mm.Tungston carbide coating of 1mm thickness Temp Range -0-600 Deg C,cali, ANSIMC 96.1 Insumineral Insulated, Dia :6mm, sheath :SS316,T/W :SS316, Straight Drilled Bar Stock Tungston carbide coating of 1mm thickness, process conn :Flarge ANSI-B 16.5/198/Class 150 LBS 1&1/4" Inst corn 1/2" BSP (F),Accessories:Bolts,Nuts, Gasket For Flange Connection,Medium : Hot AIR



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350	194300381013-Bypass Flow Comp Temp T/C SPECIFICATION:- Type: K Type T/C 160/200 mm with Thermowell,OD :21MM,(Thermocouple with head IP-67 terminals & ceramic Block Element CR/AL "K" Type Duplex ungrounded,#cali, ANSIMC 96.1, Insumineral Insulated),Dia:6mm, sheath# SS316,T/W :SS316,Straight, Drilled Bar Stock, Tungston carbide coating of 1mm thickness,process conn :Flarge ANSI-B 16.5/198/Class 150 LBS 1&1/4" Inst corn 1/2" BSP (F),EXT/IMM# LEANTH:# 160/200 mm. Temp Range -0-600 Deg C,Accessories:Bolts,Nuts, Gasket For Flange Connection,Medium :Hot AIR	8	EA			
SPECIFICATION:- Type: K Type T/C 160/200 mm with Thermowell,OD :21MM,(Thermocouple with head IP-67 terminals & ceramic Block Element CR/AL "K" Type Duplex ungrounded,#cali, ANSIMC 96.1, Insumineral Insulated),Dia:6mm, sheath# SS316,T/W :SS316,Straight, Drilled Bar Stock, Tungston carbide coating of 1mm thickness,process conn :Flarge ANSI-B 16.5/198/Class 150 LBS 1&1/4" Inst corn 1/2" BSP (F),EXT/IMM# LEANTH:# 160/200 mm. Temp Range -0-600 Deg C,Accessories:Bolts,Nuts, Gasket For Flange Connection,Medium :Hot AIR						
360	194300381040-K TYPE T/C ELEMENT 160/400 WO THERMOWELL SPECIFICATION:- Type: K Type T/C 160/400 mm with Thermowell,OD :21MM,(Thermocouple with head IP-67 terminals & ceramic Block Element CR/AL "K" Type Duplex ungrounded,#cali, ANSIMC 96.1, Insumineral Insulated), Dia :6mm, sheath :SS316,T/W :SS316,Straight Drilled Bar Stock Tungston carbide coating of 1mm thickness, process conn; Flarge ANSI-B 16.5/198/Class 150 LBS 1&1/4" Inst corn 1/2" BSP (F),EXT/IMM# LEANTH:# 160/400 mm. Temp Range -0-600 Deg C,Accessories:Bolts,Nuts, Gasket For Flange Connection,Medium : Flue Gas,Service:- Sec Air Flow.	4	NO			
SPECIFICATION:- Type: K Type T/C 160/400 mm with Thermowell,OD :21MM,(Thermocouple with head IP-67 terminals & ceramic Block Element CR/AL "K" Type Duplex ungrounded,#cali, ANSIMC 96.1, Insumineral Insulated), Dia :6mm, sheath :SS316,T/W :SS316,Straight Drilled Bar Stock Tungston carbide coating of 1mm thickness, process conn; Flarge ANSI-B 16.5/198/Class 150 LBS 1&1/4" Inst corn 1/2" BSP (F),EXT/IMM# LEANTH:# 160/400 mm. Temp Range -0-600 Deg C,Accessories:Bolts,Nuts, Gasket For Flange Connection,Medium : Flue Gas,Service:- Sec Air Flow.						
370	194300381039-T/C THERMOWELLTYPE	4	EA			



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<p>PT/PT -RH 13 PERCENT SPECIFICATION:-</p> <p>SIMPLEX HEAD TYPE THERMOCOUPLE,ELEMENT- R-TYPE (Pt-Rh 13% Pt) MgO INSULATED,UNGROUNDDED TYPE,WIRE SIZE-24 AWG,ACCURACY OF T/C-CLASS-1 AS PER ANSI MC 96.1,IR- >100 OHM @ 500VDC,ACCURACY:# +/- 0.75% OF RDG,RESPONSE TIME: 500ms, CONNECTING HEAD-IP67 DIE CAST ALLUMINIUM,CERAMIC BLOCK BRASS NI PLATED SPRING LOADED TERMINAL,STEM LENGTH-1200 MM ,INSERTION LENGTH-800MM,EXTENDED LENGTH-400 MM,ELEMENT OD-8MM. THERMOWELL- LENGTH-1200 MM,OD-21 MM ID-13.87,THERMOWELL-CERAMIC PROTECTION TUBE ,HOLDING TUBE-SS316 , FLANGE-1.5" ANSI B16.5 150#RF ADJ. FLANGE,OD-127MM,PCD-98.6MM,4 HOLES 15.7MM,TH:17.5,RF-73.2 ,RFT-1.6MM.MOC-ASTM105,NUT BOLTS SS304.MAX TEMP-UPTO 1400 DEG C</p>						
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<p>SPECIFICATION:-</p> <p>SIMPLEX HEAD TYPE THERMOCOUPLE,ELEMENT- R-TYPE (Pt-Rh 13% Pt) MgO INSULATED,UNGROUNDDED TYPE,WIRE SIZE-24 AWG,ACCURACY OF T/C-CLASS-1 AS PER ANSI MC 96.1,IR- >100 OHM @ 500VDC,ACCURACY:# +/- 0.75% OF RDG,RESPONSE TIME: 500ms, CONNECTING HEAD-IP67 DIE CAST ALLUMINIUM,CERAMIC BLOCK BRASS NI PLATED SPRING LOADED TERMINAL,STEM LENGTH-1200 MM ,INSERTION LENGTH-800MM,EXTENDED LENGTH-400 MM,ELEMENT OD-8MM. THERMOWELL- LENGTH-1200 MM,OD-21 MM ID-13.87,THERMOWELL-CERAMIC PROTECTION TUBE ,HOLDING TUBE-SS316 , FLANGE-1.5" ANSI B16.5 150#RF ADJ. FLANGE,OD-127MM,PCD-98.6MM,4 HOLES 15.7MM,TH:17.5,RF-73.2,RFT-1.6MM.MOC-ASTM105,NUT BOLTS SS304.MAX TEMP-UPTO 1400 DEG C</p>						
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Total :						
Rupees (in words) :						

NOTE:
NIL