

Technical Specifications

SL. No	Description and Technical Specification of the item	QTY	UNIT	Delivery
1	Water Cooled TIG Torch (16 Meters) Water Cooled TIG Torch (16 Meters) as per Technical Specification WCTK	75.00	NO	70 DAYS
2	Short Back CAP Short Back CAP as per Technical Specification WCTK	200.00	NO	70 DAYS
3	Long Back CAP Long Back CAP as per Technical Specification WCTK	300.00	NO	70 DAYS
4	Torch Head (flexible) Torch Head (flexible) as per Technical Specification WCTK	75.00	NO	70 DAYS
5	Collet Collet (diameter 2.4 mm) Technical details: Shape – as per Photo SI. No. 1 (for Technical Specification WCTK SI. No. 6.1)	1,000.00	NO	70 DAYS
6	Collet body Collet body (diameter 2.4 mm) Technical details: Shape – as per Photo SI. No. 1 (for Technical Specification WCTK SI. No. 6.1)	300.00	NO	70 DAYS
7	Collet Collet (diameter 2.4 mm) Technical details: Shape: as per Photo SI. No. 2 (for Technical Specification WCTK SI. No. 6.2)	1,000.00	NO	70 DAYS
8	Gas lens Collet body Gas lens Collet body (Diameter 2.4 mm) Technical details: Shape – as per Photo SI. No. 2 (for Technical Specification WCTK SI. No. 6.2)	400.00	NO	70 DAYS

9	<p>Collet</p> <p>Collet (diameter 3.2 mm)</p> <p>Technical details: Shape – as per Photo Sl. No. 1 (for Technical Specification WCTK Sl. No. 6.1)</p>	250.00	NO	70 DAYS
10	<p>Collet body</p> <p>Collet body (diameter 3.2 mm)</p> <p>Technical details: Shape – as per Photo Sl. No. 1 (for Technical Specification WCTK Sl. No. 6.1)</p>	300.00	NO	70 DAYS
11	<p>Collet</p> <p>Collet (diameter 3.2 mm)</p> <p>Technical details: Shape – as per Photo Sl. No. 2 (for Technical Specification WCTK Sl. No. 6.2)</p>	300.00	NO	70 DAYS
12	<p>Gas lens Collet body</p> <p>Gas lens Collet body (Diameter 3.2 mm)</p> <p>Technical details: Shape – as per Photo Sl. No. 2 (for Technical Specification WCTK Sl. No. 6.2)</p>	300.00	NO	70 DAYS
13	7 pin socket connector	75.00	NO	70 DAYS
14	Gas Hose - (Tightening clip)	1000.00	NO	70 DAYS
15	Water Hose - (Tightening clip)	1000.00	NO	70 DAYS
16	<p>Ceramic Bore (inner diameter) – 6.4 mm Length – 47 mm</p> <p>Technical details: Ceramic (for collet body - Photo Sl. No. 1) Shape – as per Photo Sl. No. 3</p>	500.00	NO	70 DAYS
17	<p>Ceramic Bore (inner diameter) – 8.0 mm Length – 47 mm</p> <p>Technical details: Ceramic (for collet body - Photo Sl. No. 1) Shape – as per Photo Sl. No. 3</p>	200.00	NO	70 DAYS

18	<p>Ceramic Bore (inner diameter) – 9.5 mm Length – 47 mm</p> <p>Technical details: Ceramic (for collet body - Photo Sl. No. 1) Shape – as per Photo Sl. No. 3</p>	200.00	NO	70 DAYS
19	<p>Ceramic Bore (inner diameter) – 11 mm Length – 47 mm</p> <p>Technical details: Ceramic (for collet body - Photo Sl. No. 1) Shape – as per Photo Sl. No. 3</p>	200.00	NO	70 DAYS
20	<p>Ceramic Bore (inner diameter) – 12.7 mm Length – 47 mm</p> <p>Technical details: Ceramic (for collet body - Photo Sl. No. 1) Shape – as per Photo Sl. No. 3</p>	200.00	NO	70 DAYS
21	<p>Ceramic Bore (inner diameter) – 16 mm Length – 47 mm</p> <p>Technical details: Ceramic (for collet body - Photo Sl. No. 1) Shape – as per Photo Sl. No. 3</p>	50.00	NO	70 DAYS
22	<p>Ceramic Bore (inner diameter) – 6.4 mm Length – 47 mm</p> <p>Technical details: Ceramic (for collet body - Photo Sl. No. 1) Shape – as per Photo Sl. No. 4</p>	500.00	NO	70 DAYS
23	<p>Ceramic Bore (inner diameter) – 8 mm Length – 47 mm</p> <p>Technical details: Ceramic (for collet body - Photo Sl. No. 1) Shape – as per Photo Sl. No. 4</p>	300.00	NO	70 DAYS
24	<p>Ceramic Bore (inner diameter) – 5.5 mm Length – 64 mm</p> <p>Technical details: Ceramic (for collet body - Photo Sl. No. 1) Shape – as per Photo Sl. No. 5</p>	100.00	NO	70 DAYS

25	<p>LENS NOZZLE (Ceramic)</p> <p>Bore (inner diameter) – 8 mm Length – 40 mm</p> <p>LENS NOZZLE (Ceramic)</p> <p>Technical details: Lens Nozzle Ceramic. Shape – as per Photo Sl. No. 6. (for Lens collet body- Photo Sl. No. 2)</p>	100.00	NO	70 DAYS
26	<p>LENS NOZZLE (Ceramic)</p> <p>Bore (inner diameter) – 9.5 mm Length – 40 mm</p> <p>LENS NOZZLE (Ceramic)</p> <p>Technical details: Lens Nozzle Ceramic Shape – as per Photo Sl. No. 6. (for Lens collet body- Photo Sl. No. 2)</p>	100.00	NO	70 DAYS
27	<p>LENS NOZZLE (Ceramic)</p> <p>Bore (inner diameter) – 11 mm Length – 40 mm</p> <p>LENS NOZZLE (Ceramic)</p> <p>Technical details: Lens Nozzle Ceramic Shape – as per Photo Sl. No. 6. (for Lens collet body Photo Sl. No. 2)</p>	200.00	NO	70 DAYS
28	<p>LENS NOZZLE (Ceramic)</p> <p>Bore (inner diameter) –12.7 mm Length – 40 mm</p> <p>LENS NOZZLE (Ceramic)</p> <p>Technical details: Lens Nozzle Ceramic (for Lens collet body- Photo Sl. No. 2) Shape – as per Photo Sl. No. 6.</p>	200.00	NO	70 DAYS
29	<p>LENS NOZZLE (Ceramic)</p> <p>Bore (inner diameter) –17.5 mm Length – 40 mm</p> <p>LENS NOZZLE (Ceramic)</p> <p>Technical details: Lens Nozzle Ceramic (for Lens collet body) Shape – as per Photo Sl. No. 6.</p>	50.00	NO	70 DAYS
30	<p>INSUALTOR</p> <p>Insulator (for Technical Specifications Sl. No. 6.1)</p>	500.00	NO	70 DAYS

31	INSUALTOR Insulator (for Technical Specifications Sl. No. 6.2)	500.00	NO	70 DAYS
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Sl. No.	Technical Specification WCTK	Bidder Confirmation
1	<p><u>1.1</u> Water Cooled TIG Torch (16 Meters) with end connection (Control Cable + Gas Hose & Power cable + Water Hose etc.) to suit the TIG Welding Machine – Make : KEMPPI (Model : Master Tig MLS 4000)</p> <p><u>1.2</u> TIG Torch Application : Compatible & suitable for using exclusively in TIG Welding Machine – Make : KEMPPI (Model : Master Tig MLS 4000).</p> <p><u>1.3</u> Water Cooled TIG Torch (16 Meters) is required for GTAW Welding process for all welding position</p> <p><u>1.4</u> Current & Water Cable Length– 2 meters (from Torch handle end).</p>	
2	<p>At 100 % Duty Cycle torch shall be suitable for 250 ampere.</p> <p>At 40 % Duty Cycle torch shall be suitable for 350 ampere.</p>	
3	<p>Torch should be capable of using Tungsten Rod diameter 2.4 mm and 3.2 mm</p>	
4	<p>4.1 Water Cooled TIG Torch Length 16 meters.</p> <p>4.2 Torch having long switch (internally attached with handle)with large friction surface. Long switch location should be near to TIG TORCH Neck.</p> <p>4.3 Prefer - Torch having straight neck with angular head.</p> <p>4.4 Torch outer cover material- Rubber.</p> <p>4.5 TIG Torch Handle Round shape is not acceptable.</p>	
5	<p>5.1 TIG Torch shall have - Flexible Neck .</p> <p>5.2 TIG Torch neck length should be maximum 70 mm (prefer length 50 mm)</p>	
6	<p>6.1 TIG Torch should have Back CAP, Insulator, Collet, Collet Body, Gas Nozzle and Tungsten rod.</p> <p style="text-align: center;">(OR)</p> <p>6.2 TIG Torch should have Back cap ,Insulator, Collet , Gas Lens Collet Body, Lens Gas Nozzle and Tungsten rod .</p> <p>6.3 TIG Torch is suitable for Sl. No. 6.1 and 6.2 both.</p> <p>6.4 A Shape of Collet , Collet Body , Gas Lens Collet Body, Gas Nozzle and Lens Gas Nozzles are enclosed for reference. Bidder should quote for similar.</p> <p>6.4 B Gas Nozzle and Lens Gas Nozzles – Bidder may quote nearest available size (diameter & length) and shape (in case required diameter, length and shape is not available)</p>	
7	<p>Torch shall have Long Back CAP or Short Back CAP.</p> <p>Note: TIG Torch is suitable for Long Back CAP and Short Back CAP.</p>	

Sl .No.	Technical Specification WCTK	Bidder confirmation
8	<p>Bidder shall be ensured flexibility in TIG Torch for GTAW Welding Process for all welding position .</p> <p>Note 1: Ball type connection is not acceptable at torch handle end (in-between Torch handle end and outer cover)</p> <p>Note 2: Flexibility shall be ensured in-between Torch handle and outer cover (including Gas hose ,water hose , control cable and current-water Cable for all welding position) .</p> <p>Note 3: Rubber Corrugated sleeves connection between torch handle end and outer cover (for Gas hose, water hose, control cable and current –water Cable).</p> <p>Note 4 : Prefer - Turning radius of hose pack (including Current & water Cable, Gas hose, water hose and Control cable) at torch handle end should be as minimum as possible.</p>	
9	The torch shall be light in weight (preferred weight as per relevant standard).	
10.1	<p>Identification are required for the following.</p> <p><u>Inlet water hose and Outlet water Hose</u></p>	
10.2	Water Hose (silicone braided hose) and Hose colour - black	
10.3	<p>Gas Hose (silicone braided hose)</p> <p>Note: Argon Gas is being used as Shielding gas in GTAW Process.</p>	
11	The Torch shall be warranted for 12 months on normal operations(except worn-out items) from the day of items reached at BHEL Store.	
12	<p>Testing:</p> <p>On receipt at BHEL, TRICHY; the items will be fitted with TIG Welding Machine – Make : KEMPPI (Model : MasterTig MLS 4000) and shall be tested by BHEL in presence of the supplier/supplier’s authorized representative. Supplier should confirm their presence.</p>	
13	<p>Acceptance Criteria :</p> <p>Acceptance shall only be given after completion of testing.</p> <p>In case of failure, the Supplier shall agree to replace all the defected items.</p>	

Seal and Sign of Authorized Person

Quantity details	Description	Required Quantity
Q10	Water Cooled TIG Torch (16 Meters) as per Technical Specification WCTK	75 numbers.
Q20	Short Back CAP as per Technical Specification WCTK	200 numbers.
Q30	Long Back CAP as per Technical Specification WCTK	300 numbers.
Q40	Torch Head (flexible) as per Technical Specification WCTK.	75 numbers
Q50	Collet (diameter 2.4 mm) <u>Technical details:</u> Shape – as per Photo Sl. No. 1 (for Technical Specification WCTK Sl. No. 6.1)	1000 numbers
Q60	Collet body (diameter 2.4 mm) <u>Technical details:</u> Shape – as per Photo Sl. No. 1 (for Technical Specification WCTK Sl. No. 6.1)	300 numbers
Q70	Collet (diameter 2.4 mm) <u>Technical details:</u> Shape – as per Photo Sl. No. 2 (for Technical Specification WCTK Sl. No. 6.2)	1000 numbers
Q80	Gas lens Collet body (Diameter 2.4 mm) <u>Technical details:</u> Shape – as per Photo Sl. No. 2 (for Technical Specification WCTK Sl. No. 6.2)	400 numbers
Q90	Collet (diameter 3.2 mm) <u>Technical details:</u> Shape – as per Photo Sl. No. 1 (for Technical Specification WCTK Sl. No. 6.1)	250 numbers
Q100	Collet body (diameter 3.2 mm) <u>Technical details:</u> Shape – as per Photo Sl. No. 1 (for Technical Specification WCTK Sl. No. 6.1)	300 numbers

Seal and Sign of Authorized Person

Quantity details	Description	Required Quantity
Q110	Collet (diameter 3.2 mm) <u>Technical details:</u> Shape – as per Photo Sl. No. 2 (for Technical Specification WCTK Sl. No. 6.2)	300 numbers
Q120	Gas lens Collet body (Diameter 3.2 mm) <u>Technical details:</u> Shape – as per Photo Sl. No. 2 (for Technical Specification WCTK Sl. No. 6.2)	300 numbers
Q130	7 pin socket connector	75 numbers
Q140	Gas Hose (Tightening clip)	1000 numbers
Q150	Water Hose (Tightening clip)	1000 numbers
Q160	Bore (inner diameter) – 6.4 mm Length – 47 mm Ceramic <u>Technical details:</u> Ceramic (for collet body - Photo Sl. No. 1) Shape – as per Photo Sl. No. 3	500 numbers.
Q170	Bore (inner diameter) – 8.0 mm Length – 47 mm Ceramic <u>Technical details:</u> Ceramic (for collet body - Photo Sl.No. 1) Shape – as per Photo Sl. No. 3	200 numbers.
Q180	Bore (inner diameter) – 9.5 mm Length – 47 mm Ceramic <u>Technical details:</u> Ceramic (for collet body - Photo Sl.No. 1) Shape – as per Photo Sl. No. 3	200 numbers.

Quantity details	Description	Required Quantity
Q190	Bore (inner diameter) – 11 mm Length – 47 mm Ceramic <u>Technical details:</u> Ceramic (for collet body - Photo Sl.No. 1) Shape – as per Photo Sl. No. 3	200 numbers.
Q200	Bore (inner diameter) – 12.7 mm Length – 47 mm Ceramic <u>Technical details:</u> Ceramic (for collet body - Photo Sl.No. 1) Shape – as per Photo Sl. No. 3	200 numbers.
Q210	Bore (inner diameter) – 16 mm Length – 47 mm Ceramic <u>Technical details:</u> Ceramic (for collet body - Photo Sl.No. 1) Shape – as per Photo Sl. No. 3	50 numbers.
Q220	Bore (inner diameter) – 6.4 mm Length – 47 mm Ceramic <u>Technical details:</u> Ceramic (for collet body - Photo Sl.No. 1) Shape – as per Photo Sl. No. 4	500 numbers.
Q230	Bore (inner diameter) – 8 mm Length – 47 mm Ceramic <u>Technical details:</u> Ceramic (for collet body - Photo Sl.No. 1) Shape – as per Photo Sl. No. 4	300 numbers.
Q240	Bore (inner diameter) – 5.5 mm Length – 64 mm Ceramic <u>Technical details:</u> Ceramic (for collet body - Photo Sl.No. 1) Shape – as per Photo Sl. No. 5	100 Numbers

Quantity details	Description	Required Quantity
Q250	Bore (inner diameter) – 8 mm Length – 40 mm LENS NOZZLE (Ceramic) <u>Technical details:</u> Lens Nozzle Ceramic (for Lens collet body-- Photo Sl.No. 2) Shape – as per Photo Sl. No. 6.	100 Numbers.
Q260	Bore (inner diameter) – 9.5 mm Length – 40 mm LENS NOZZLE (Ceramic) <u>Technical details:</u> Lens Nozzle Ceramic (for Lens collet body-- Photo Sl.No. 2) Shape – as per Photo Sl. No. 6.	100 Numbers.
Q270	Bore (inner diameter) – 11 mm Length – 40 mm LENS NOZZLE (Ceramic) <u>Technical details:</u> Lens Nozzle Ceramic (for Lens collet body-- Photo Sl.No. 2) Shape – as per Photo Sl. No. 6.	200 Numbers.
Q280	Bore (inner diameter) –12.7 mm Length – 40 mm LENS NOZZLE (Ceramic) <u>Technical details:</u> Lens Nozzle Ceramic (for Lens collet body- Photo Sl.No. 2) Shape – as per Photo Sl. No. 6.	200 Numbers.
Q290	Bore (inner diameter) –17.5 mm Length – 40 mm LENS NOZZLE (Ceramic) <u>Technical details:</u> Lens Nozzle Ceramic (for Lens collet body) Shape – as per Photo Sl. No. 6.	50 Numbers.
Q300	Insulator (for Technical Specifications Sl. No. 6.1)	500 Numbers
Q310	Insulator (for Technical Specifications Sl. No. 6.2)	500 Numbers
Note: 1- From Sl. No. Q20 to Sl. No. Q310: Required for Water Cooled TIG Torch (16 Meters) as per Technical Specification WCTK 2- Gas Nozzle and Lens Gas Nozzles – Bidder may quote nearest available size (diameter & length) and shape (in case required diameter, length and shape is not available)		

Seal and Sign of Authorized Person

Photo for Technical Specification WCTK

Sl. No.	Spare Name	Photo
Photo Sl. No. 1	<ul style="list-style-type: none">• Collet• Collet Body	 <p data-bbox="625 646 905 711">COLLET</p> <p data-bbox="1220 646 1734 711">COLLET BODY</p>
Photo Sl. No. 2	<ul style="list-style-type: none">• Collet• Lens Collet Body	 <p data-bbox="625 1344 915 1409">COLLET</p> <p data-bbox="1251 1344 2024 1409">LENS COLLET BODY</p>

Photo for Technical Specification WCTK

TIG MACHINE
PHOTO

TIG WELDING MACHINE
(Model : MasterTig MLS 4000)



Photo for Technical Specification WCTK

Photo
Sl. No.
3

Ceramic

(suitable for
Collet Body)



Photo for Technical Specification WCTK

Photo
Sl. No.
4

Ceramic
(suitable for
Collet Body)



Photo for Technical Specification WCTK

Photo
Sl. No.
5

Ceramic (for
collet body)



Photo for Technical Specification WCTK

Photo
Sl. No.
6

Lens Nozzle
Ceramic (for
Lens collet
body)



Sl. No.	Pre –Qualification Criteria - PR 0136361855	Bidder remark
1	If Bidder is a manufacturer, Confirm “Yes or, No” in bidder remark.	
2	Any deviation from the Specification are to be mentioned in the “Bidder remark Space”. If There is no deviation vendor should indicate “No Deviation”.	

Sign and seal

Annexure – A- Additional Terms and Conditions for GeM Enquiry

The terms and condition mentioned in this document are applicable in addition to the GeM General Terms and Conditions. Bidders shall furnish pointwise confirmation/details.

<i>To be filled by bidder</i>		
Description of the Equipment:		
GeM Tender No. & Date		
Name of the firm (Bidder)		:
Address		:
<u>Contact person 1</u>		<u>Contact person 2</u>
Name:		Name:
Designation:		Designation:
Office Phone:		Office Phone:
Mobile:		Mobile:
e-mail:		e-mail:
Offer/Quotation reference with date		:
SI	Terms and conditions	Vendor's confirmation
1.	Inspection by BHEL/as per Technical specification(if any).	
2.	<p>Payment terms:</p> <ol style="list-style-type: none"> 1. Payment terms for Non MSME Suppliers: 90 days from the Vehicle entry date (Against submission of GST invoice, GeM invoice, LR copy, Last Movement e-Way Bill, UD). 2. Payment terms for Micro & Small Enterprises (MSEs): 45 days from the Vehicle entry date (Against submission of GST invoice, GeM invoice, LR copy, Last Movement e-Way Bill, UD). The supplier should upload UDYAM Registration Certificate in proof of MSE. 3. Payment terms for Medium Enterprises: 60 days from the Vehicle entry date (Against submission of GST invoice, GeM invoice, LR copy, Last Movement e-Way Bill, UD). The supplier should upload UDYAM Registration Certificate in proof of Medium Enterprises. <p>Note: Deviation in above payment terms is not acceptable.</p>	
3.	Response to Tenders for Indigenous supplier will be entertained only if the vendor has a valid GST registration number which should clearly mentioned in the offer. Indicate the GST registration number. If any specific exemption is available, a declaration with due supporting documents need to be furnished for considering the offer.	GST Registration No. _____
4.	EMD / Performance Security:	Not Applicable
5.	Kindly Indicate the HSN Code for all items	HSN CODE : ____
6.	Rate quoted in GeM portal should be on FOR destination basis inclusive of all taxes, P&F, freight etc. Transit Insurance is under Supplier scope. Please indicate how much GST percentage is included in quoted price.	GST in %: ____

Vendor's Seal & Signature

/ On Bidder's office letter pad /

Self-Declaration

Enquiry No.	
Enquiry Date	

In line with Government public procurement order Number P-45021/2/2017-B.E-II dated 15.06.2017, and further modified order dt. 28.05.2018, 29.05.2019 & order 04.06.2020 issued by DPIIT

I / We hereby declare that I / We are a "Local Supplier" meeting the requirement of minimum local content (..... %) defined in the above government notification for the goods against above mentioned enquiry Number.

Details of location at which local value addition will be made is as follows:

Door No.	
Street / Address 1	
Street / Address 2	
District	
State	
Country	
PIN Code	

We also understand that the false declarations will be in breach of the code of Integrity under rule 175(1)(i)(h) of the General financial rules for which a bidder or its successors can be debarred for up to two years as per Rule 151(iii) of the General Financial Rules along with such other actions as may be permissible under law.

For Company Name:

Seal:

Signature:

Date:

Place:

Note:

" Local Content "means the amount of value added in India which shall ,unless otherwise prescribed by the Nodal Ministry, be the total value of the item procured(excluding net domestic indirect taxes) minus the value of imported content in the item(including all customs duties) as a proportion of the total value, in percent. "Local Supplier "means a supplier or service provider whose product or service offered for procurement meets the minimum local content.

The above declaration shall be submitted mandatorily along with the offer in company letter head with seal & signature.

(Please fill all the yellow color field)