

**Bhabha Atomic Research Centre  
Applied Physics Division**

**Tender No. BARC/APD/MF/PCD/2020/117846**

**Due on 08/12/2020 at 1600 hrs**

24<sup>th</sup> Nov 2020

Sub: Invitation of Quotations for **Minor Fabrication of patch cable of Optical glass fiber as per attached annexure-1.**

Dear Sir,

Quotations are invited for the minor fabrication job of **Minor Fabrication of patch cable of Optical glass fiber as per attached annexure-1.**

Bidder shall quote for fabrication of the same.

- 1) Taxes and excise duties shall be quoted separately.
- 2) Quotation must be in the printed letter head/quotation format, which should consist of sales tax, registration number registered with local ST authority/CST authority, PAN number of the firm, Service tax registration number etc. Quotations that are received in computer-generated form are to be constructed as invalid and rejected.
- 3) The quotations must strictly reach,  
**Head, Applied Physics Division**  
Purnima Laboratory  
Bhabha Atomic Research Centre ,  
Trombay, Mumbai 400085.  
Attn: **Shri. P C Das**  
on or before **08/12/2020 16:00 HRS** and must be sent in a sealed envelope super scribed "MINOR FABRICATION" with the above reference number and due date given above.
- 4) The fabrication work shall be subject to inspection by our engineer. The finished components shall not be dispatched prior to approval by our engineer, at bidder's works. Necessary inspection facilities should be provided to our engineers during fabrication at bidder's premises.
- 5) The bidder shall specify the **delivery period** (not exceeding **8-10 weeks**), in case of order.
- 6) **Head, Applied Physics Division, B.A.R.C.**, reserves the right to accept/reject any or all quotations without assigning any reason.
- 7) **Payment** will be made as per rules after completion of the job satisfactorily.
- 8) **Validity:** The offer shall be kept open for acceptance for a period of **60 days** from the date of opening of quotation
- 9) **Proof of ability** - A brief list of similar jobs executed if any and name of the organization to be furnished.
- 10) **Delivery:** The bidder shall deliver the finished components after approval by our engineer, and scrap form the free issue material shall be delivered by the bidder at **APD, Purnima Laboratory BARC Bombay**, at free of cost.

Enclosure: Scope of Tender

*Prakash Ch Das*  
(Prakash Ch Das)  
Scientific Assistant- E  
For and on behalf of President of Indi

## Annexure-1

- 1) Optical glass fiber of diameter 50micron and length 3m with both end SMA connector:50Nos
- 2) Optical glass fiber of diameter 550micron and length 3m with both end SMA connector:50Nos
- 3) Optical glass fiber of diameter 50micron and length 7m with one end SMA connector: 50Nos
- 4) Optical glass fiber of diameter 550micron and length 7m with one end SMA connector: 50Nos
- 5) Optical glass fiber of diameter 50micron and length 10m with both end SMA connector : 10Nos
- 6) Optical glass fiber of diameter 550micron and length 10m with both end SMA connector : 10Nos

a) **Specification of \$50 μm core Glass clad Silica Multimode Optical fiber:**

Sr No.	Parameter	Value
1	Core Diameter	50μm± 2 μm
2	Wave length Range	400-2400nm
3	Hydroxyl content	Low-OH
4	Cladding Diameter	125 μm ± 1μm
5	Coating Diameter	250μm ± 4%
6	Core cladding	Pure Silica/ Fluorine-Doped Silica
7	Coating	Acrylate
8	Multimode	Step index Multimode Fiber
9	Proof Test	≥ 100KPsi
10	Fiber should be jacketed with PTF sleeve	

b) **Specification of \$550 μm core Glass clad Silica Multimode Optical fiber:**

Sr No.	Parameter	Value
1	Core Diameter	550μm± 19μm
2	Wave length Range	400-2200nm
3	Hydroxyl content	Low-OH
4	Cladding Diameter	600 μm ± 10μm
5	Coating Diameter	630μm ± 10μm
6	Buffer Diameter	1040 ±30μm
7	Buffer	Tefzel
8	Core cladding	Pure Silica/ Fluorine-Doped Silica
9	Coating	TECS™ Hard Fluoropolymer
10	Multimode	Step index Multimode Fiber
11	Proof Test	≥ 100KPsi
12	Fiber should be jacketed with PTF sleeve	

**Note:** Test certificate should be provided for low insertion loss and transmission efficiency in each patch cable.

*Prakash ch Das  
P C Das,  
SME, APD, BARC*