

CONSUMABLE ITEMS FOR FOPD

Category	Sub-Category	Items
IT PRODUCTS	IT CONSUMABLES	<ul style="list-style-type: none"> • USB cables • Ethernet Cables • VGA cables • HDMI cables • Audio cables • RS232 cables
	COMPUTER PARTS	<ul style="list-style-type: none"> • Mouse • Hard diskdrive (External/Internal) • Keyboard • RAM Card
	IT MISCELLANEOUS	<ul style="list-style-type: none"> • Pen drive • Electrical power cord(5/15A) • Electrical Extension Board (5/15A)
	LAN ITEMS (COMP CONSU)	<ul style="list-style-type: none"> • Switch/Router
	CARDRIGE	<ul style="list-style-type: none"> • Printer cartridge / Refilling ink
	PRINTER	
CHEMICALS	MERCK	<ul style="list-style-type: none"> • IPA (Isopropyl alcohol) • Ethanol • Methanol • Acetone • Nitric acid (HNO3) • Sulphuric Acid • Hydrochloric Acid (HCl) • N-Methyl-2-pyrrolidone (NMP) • Resin for acrylate fiber recoating
	Sigma Aldrich	<ul style="list-style-type: none"> • Poly (allylamine hydrochloride) • Poly (Sodium 4-styrenesulfonate) • Acetone • Nitric acid • Sulphuric Acid • Hydrochloric acid • N-Methyl-2-pyrrolidone (NMP) • Resin for acrylate fiber recoating
LAB CONSUMABLES	Other Consumables	<ul style="list-style-type: none"> • Magnifying Glass • Torch • Cable tie • Tool boxes • Tissue papers • Perspex Sheet • Boiler suits • Coverall Suits • Safety Aprons • Eye Protection Glasses • Gloves • Mask • Duster

		<ul style="list-style-type: none"> • Brush for Cleaning • Kimwipe Boxes • Mosquito Racquet • Mosquito Repellent Liquid Machine • Mosquito Repellent Liquid Refill • Plastic Bottles
STATIONERY	OFFICE STATIONERY	<ul style="list-style-type: none"> • Plastic Folder / Cover • Lever Arch File • Cover file • Masking tape • All pin • Board pin • Gems clip • Paper clip • Magic tape • Scotch tape • Marker Pen • A4 size print paper
Other Consumables	Electrical Consumables	<ul style="list-style-type: none"> • Electrical Switch • Electrical wire / copper wire • Multimeter • Power Adapters
R & D CONSUMABLES	HAND TOOLS	<ul style="list-style-type: none"> • Spanner • Jeweller screw driver set • Files • Knife • Wire cutter • Wire stripper • Pipe bending tool • Optical fiber Cleaver • Optical fiber stripper • Soldering iron • Mechanical tools kit • Electrical tools kit • Optical fiber/patchcord preparation tools kit • Fiber-Optic Splicer • Electrical Strain gauge reader • Force gauge reader • Laser power head with meter • Load cell with monitoring • Fiber-Optic Interrogator • OTDR Tool
	Optical and Fiber-optic components	<ul style="list-style-type: none"> • Optical fiberSwitch • Optical fiber Coupler • Optical Power Splitter • Optical FiberPatchcord • Optical splice protector • Optical Circulator

		<ul style="list-style-type: none"> • Optical Isolator • Photodetector • Splice Protection Sleeve • Optical Fiber Adapter • Optical Fiber Attenuator • Optical Fiber Patchcord • Dust cap connector • Dust cap for Adapter • 900 um loose fiber tube • 3mm fiber protecting cable • Polyimide protecting tube • Copper coated SM fiber • Single Mode fiber(SMF28) • Multimode optical fiber • Polyimide coated fiber • Gold coated optical fiber • Specialty optical fiber • Microscope objective • Glass slide and glass cover • Refractive index gel • Fiber-Optic Junction boxes • Fiber-Optic Displacement sensor • Fiber-Optic Vibration sensor • Fiber-Optic Pressure sensor • Fiber-Optic Temperature sensor • Optical connector cleaner • Optical fiber fault locator • Gold coated fiber reflector • Fiber-Optic Light Source module • Outdoor/Indoor optical cable • Optics for laser beam alignment • Mount for optics and FBG writing system • Boxes for mirror protection
	Electronic and Opto-electronic Components	<ul style="list-style-type: none"> • Integrated Circuit (Operational Amplifier) • Integrated Circuit (Opto-coupler) • Strain gauge • Displacement sensor • Vibration sensor • Pressure sensor • Temperature sensor • Evaluation Kit Module • Printed Circuit Board • Special Function Electronic Kit Module • Optical Circulator-Switch Assembly for FBG Transmission and Reflection spectrum selection

		<ul style="list-style-type: none"> • FBG Interrogation Module • System on Board module • SBC Module • Data Acquisition Card/Module • Signal Processing Card/Module • User Interface Card/Module • Integrated Data Acquisition&Signal Processing Card/Module • Integrated Signal Processing &User Interface Card/Module • Integrated Data Acquisition, Signal Processing andUser InterfaceCard/Module • Single/Multi channel Photodetector Card/Module
	Opto-Mechanical Components	<ul style="list-style-type: none"> • Optical Fiber Sensor housing • Optical Fiber feed through • Metal Flange for fiber-optic sensor lead cable out • FBG sensor calibration arrangement • FBG sensor characterisation setup • FBG sensor writing fixture • Pantograph strain sensor holder type 5 Specification : as per CGCRI customized design & drawing • Mount for displacement sensor Specification : As per CGCRI customized design & drawing
	BATTERIES	<ul style="list-style-type: none"> • D Battery Cell • AA Battery Cell • AAA Battery Cell • CMOS Cell
	PLASTIC WARES	<ul style="list-style-type: none"> • Small /big plastic boxes
	STORAGE CONTAINER	<ul style="list-style-type: none"> • Cabinet box
HARDWARE AND ENGINEERING ITEMS	OTHER CONSUMABLES HARDWARE/ ENGINEERING ITEMS	<ul style="list-style-type: none"> • Copper tube/ SS tube Fabricated Items • SS and copper tube • SS corrugated tube • SS plate and angle • Aluminium box • Polycarbonate box • High temperature adhesive and epoxy • Cyanoacrylate adhesive • MACOR(Machinable ceramic) • Metal Weights • PFA tube • Teflon material • Heat shrinkable tube

GASES	SPECIALITY GASES	<ul style="list-style-type: none"> Gas for laser running
PROCUREMENT OF SERVICES	OTHER R&D SERVICES	<ul style="list-style-type: none"> Master Laser diode for existing laser with service
	CALIBRATION SERVICES	<ul style="list-style-type: none"> FBG writing system calibration
FABRICATED ITEMS	CONSUMABLE FABRICATED ITEMS	<ul style="list-style-type: none">
	OTHER FABRICATED ITEMS	<ul style="list-style-type: none">

Note: In 'Fiber Optics & Photonics Division' for R&D purpose, there are requirements for Optical, Fiber-Optic, Opto-Electronic and Opto-Mechanical R&D Consumable items. But in the '*R&D Consumables Category*' none of the presently available sub-categories cover such items. Hence, there is a requirement for creating a few new sub-categories under '*R&D Consumables*' category so as to better suit the requirements of FOP Division. These new sub-categories may be

- Optical and Fiber-optic components
- Electronic and Opto-electronic Components
- Opto-Mechanical Components

For reference the presently available sub-categories under 'R&D Consumables Category' are listed below:

COLUMNS(HPLC)
 NMR CONSUMABLES
 FILMS
 TLC PLATES
 LABWARE
 MASS FLOW CONTROLLERS
 R&D CONSUMABLES OUT OF CENTRALLY OPERATED HEAD
 FELLOWSHIP SCHEMES
 SENSING ION
 HAND TOOLS
 BATTERIES
 PLASTIC WARES
 STORAGE CONTAINER
 OTHER CONSUMABLES

NON-CONSUMABLE ITEMS

Category	Sub-Category	Items
APPARATUS AND EQUIPMENTS	APPARATUS AND EQUIPMENTS	<ul style="list-style-type: none">• Optical fiber splicing machine• Optical spectrum analyser (OSA)• Optical source• Oscilloscope• Fiber Bragg Grating interrogation system• Hot plate• Furnace (RT to 1400 degC)• Climate control chamber• Translation stage• Electrical Strain gauge reader• Force gauge reader• Laser power head with meter• OTDR• Signal Generator