

List of Items with Technical Specifications of Laboratory Consumables required for each IRL.

Group- I Chemical, Reagents etc.				
Sl. No.	Item	Technical specifications	Total Quantity per consignee	Remarks
1	Potassium Di chromate	Chemicals Formula:K ₂ Cr ₂ O ₇ , Formula Wt: 294.2, Minimum assay:99.5%	1 Kg	
2	Phenolic compounds containing disinfectants	Household disinfectant, containing phenolic compounds such as monochlorophenol, coal tar acid, oils & Emulsifiers etc. The approx content of phenolic compounds should be at least 40%.	50 Ltrs	
3	Basic Fuchsin	Chemical name :Pararosaniline hydrochloride, chemical structure: C ₂₀ H ₂₀ ClN ₃ mol wt:337.86Dye content: Approx.85%-88%(dye content must be mentioned), Colour: Metallic green.	500 gms	
4	Sulphuric Acid	Chemicals name :Sulphuric Acid, Formula Wt: 98.08, Specific Gravity 1.84 Minimum Assay:98%	10 Ltrs	
5	Malachite Green	Chemicals name:Malachite green Hydro Chloride, Chemical structure:C ₂₃ H ₂₅ ClN ₂ , Molecular Wt.=364.9, Colour: Green, Dye content: 80%+9% Solubility: both in water & alcohol, Stability : More than one year.	150 gms	
6	Methylene Blue	Chemicals name:Methyl thionine chloride, Chemical structure:C ₁₆ H ₁₈ ClN ₃ S, Molecular Wt:319.9, Dye content:Approx 82%(dye content must be mentioned)	100 gms	
7	Auramine	C ₁₇ H ₂₂ ClN ₃ , mol wt: 303.84	250 gms	
8	Phenol	Chemical name: Phenol, Chemical structure: C ₆ H ₅ OH, Molecular Wt: 94.11, Melting point: 40°C±2, purity: 99.5%	5 Kgs	
9	Hydrochloric Acid	Concentrated Hydro Chloric Acid, Molecular Wt: 36.46 Specific Gravity 1.18	15 Ltrs	
10	Potassium Permanganate	KMnO ₄ , Formula Wt:158	500 gms	
11	Liquid Paraffin (Heavy Grade)	Refractive index of 1.48. It should be colourless, odourless, transparent, free from fluorescene in day light with relative density of 0.827 to 0.890, viscosity of 110 to 230 m Pa s., specific gravity of 0.76-0.78 at 15.5°C	3.5 Ltrs	
12	N-acetyl L-Cysteine	Chemical structure:C ₅ H ₉ NO ₃ S, mol wt: 163.2	25 gms	
13	Sodium Citrate	Chemical name: Trisodium citrate dihydrate, AR gradeChemical structure:Na ₃ C ₆ H ₅ O ₇ .2H ₂ O, Molecular Wt (FW):294.10, Purity: 99%	500 gms	
14	Potassium phosphate	Potassium Di Hydrogen ortho Phosphate KH ₂ PO ₄ , Molecular Wt: =136.1Minimum assay=99%	1 Kg.	
15	Magnesium Sulphate	MgSO ₄ .7H ₂ O; mol wt 246.48; purity:99.5%	1Kg	
16	Magnesium Citrate	TriBasic ; C ₁₂ H ₁₀ Mg ₃ O ₁₄ .9H ₂ O mol wt: 613.28	500 gms	
17	L- asparagine monohydrate	L-Asparagine monohydrate ; C ₄ H ₈ N ₂ .H ₂ O mol wt: 150.14	1 Kg	
18	Glycerol	Formula: CH ₂ OHCHOHCH ₂ OH mol wt: 92.1; purity 99.5%	3 Ltrs	
19	Sodium hydroxide pellets	Formula:NaOH Formula Wt:40 Minimum Assay :98%	1 Kg	
20	Cetyl Pyridinium chloride	Chemical name: Cetyl Pyridinium Chloride; Chemical structure: C ₂₁ H ₃₈ ClN.H ₂ O / 358	500 gms	
21	Sodium Chloride	Chemical name: sodium chloride chemical structure :NaCl Molecular Weight:58.44 Minimum assay:99.9%	1 Kg	
22	Dihydrostreptomycin sesquisulphate	sigma D-7253	5 gms	
23	Isonicotinic acid hydarazide	Sigma I -3377	5 gms	
24	Rifampicin	Sigma R-3501	5 gms	
25	Ethambutol dihydrochloride	Sigma E-4630	25 gms pack	
26	PNB	Chemical Name Para Nitro benzoic acid Formula Wt: 167.12, Min assay =99% C ₆ H ₄ COOHNO ₂	100 gms pack	

27	Cyanogen bromide	CNBr- Cisco Research Lab:mol wt:105.9	100 gms pack	
28	O-Tolidine A.R	Dimethyl benzidine ; C14H16N2 form wt: 212.3	50 gms powder pack	
29	Hydrogen peroxide	AR or GR grade, assay : 29-32% solution, FW-34.01	1.5 Ltr	
30	Tween-80	Chemical name: Polyoxyethylenesorbitanmoonoleate. AR or GR Grade, Density=1.06-1.09g/ml	500 ml	
31	Oxalic acid(pure)	COOHCOOH.2H2; mol wt:126.07 ; purity 99.8%	500 gms	
32	Absolute alcohol	Ethanol	1 Ltrs	
33	Liquor ammonia	LR/GR Grade	1 Ltr	
34	Sodium carbonate	Formula Na2CO3 Formula Wt: 106 Minimum assay :99%	500 gms	
35	N-N-dimethyl formamide	HCON(CH ₃) ₂ mol wt: 73.09	500 ml	
36	Formaldehyde	HCHO; mol wt: 30.03; wt per ml at 20°C=1.075-1.095 g; methanol content=10-15%, Assay (acidimetric) as HCHO 37-41%	2.5 Ltrs	

GROUP - II Miscellaneous				
1	Universal Containers (McCartney Bottles)	28ml, wide neck, with aluminium screw cap and liners pack of 20 bottles. Weight of each bottle in gms (without screw cap and Neoprene washer)= 50±1, Length of bottle in mm = 82 Maximum external circumference of bottle in mm = 92 Type of bottle (thickness and surface: bottom and side of each bottle) = Even thickness without air bubbles in the glass, clear glass Diameter of the bottom of bottle in mm to fit within centrifuge bucket of inner diameter of 30 mm = 28.2 Capacity of each bottle in ml (volume) = 28 Bottle should be autoclavable, should not become opaque on autoclaving. Screw cap for the bottle: Weight in Gms without washer = 1.6±0.1 gms, made of aluminum to fit tightly all bottles (leak proof), Inner diameter of screw cap without Neoprene washer in mm = 2.7. Neoprene (soft) washers thickness in mm = 2.5 Neoprene washer diameter in mm = 2.7 Neoprene washers should withstand repeated autoclave.	10000	"Fisher" make or equivalent. The Bidder must specify the make of the Containers it intends to supply.
2	Spare Caps for Universal Containers	Spare caps with liners for Universal Containers 28ML, wide neck, pack of 100 Nos.	10 Packs (100 each)	
3	Diamond marker Pencil	6" holder with artificial diamond (hard stone) embedded at one end with screw cap to mark on microscope glass slides.	6 nos.	
4	Grease marking pencil	Marking pencil MPS, Blue or red coloured, 8" length, to write on glass ware/metal surfaces.	8 nos.	
5	Cotton	Absorbent, each roll of 0.5 Kg	10 rolls	
6	Filter Paper	Filter paper No. 1, 12.5 cms diameter for filtering carbol fuchsin using a small funnel of 10cm maximum diameter, Smooth on one side and rough on the other side, water permeable	120 packs	
7	Brown paper for packing	115 cm.x 75 cm. size sheets	75 sheets	
8	Non-absorbent cotton	Non-absorbent cotton rolls of 1/2 kg each, surgical grade	4 Kg	
9	Lens paper	Soft microscope lens cleaning tissue, 4" x 6" booklet, each booklet containing 100 sheets	50 booklets	
10	slides	Glass microscope slides, 76mm x 26mm x 1.3mm, plain, one pack of 50 slides.	144 packs	
11	Test tubes	Glass, autoclavable & heat resistant, standard rimless, 150 x 16mm with screw caps.	100	
12	Loop Wire	Nichrome wire, 24 Standard Wire Gauge (SWG) or 0.022 inches or 0.559 mm thickness SWG.	10 metres	
13	Glass beads	Acid washed, 3mm diameter, round, transparent, for dispersing the clumps of micro-organisms by vortexing or blending.	500 gms.	
14	Bijou bottles	Borosilicate or corning glass of 5 ml capacity with screw caps of Aluminium with rubber liners suitable for Bijou bottles, leak proof.	250	
15	Spare Caps for Bijou bottles	Screw caps of Aluminium with rubber liners suitable for Bijou bottles.	500	

General requirements:-

All the chemicals should have the Hazard Communication Standard from Chemical manufacturers and Material Safety Data Sheets (MSDS) for each chemical item should be provided to the purchaser of the product at the time of the order and thereafter, anytime the MSDS is significantly revised. Also, all the chemicals should have their detailed specifications, potency, date of manufacture, date of expiry, batch no. and precautions for use mentioned on the containers.