				Proposed B	udget Details				
Insti	itute	Budget Year	Manpower Budget (Rs.)	Contingency	y Consumables	Equipment	Travel	Overhead	Total(Rs)
		1	2547840.00	700000.00	13598657.00	3900000.00	500000.00	229683	21476180
		2	2547840.00	700000.00	4094874.00	0	500000.00	219984	8062698
		3	2547840.00	700000.00	3769757.00	0	500000.00	210527	7728124
Гotа	ll in (Rs.):		7643520	2100000	21463288	3900000	1500000	660194	37,267,002.0
			В	udget Breakup D	<b>Petails</b> (Staff/Manpower)				
ŧ	Budget Year	Institute	Designation	No. of Person(nos)	Require Month(nos)	Cos Persor		verhead(Rs.)	Total Cost(Rs
1	Year: 1		Project Technical Support - II	1	12	2	3,600	8,496.00	283,200.
			support-II position has beer maintenance of animal cage						ection of sample
2	Year: 1		Senior Project Assistant	1	12	3	0,600	11,016.00	367,200.
and	Pb transgenic l	lines, in vitro and	or Project Assistant is requre in vivo experiments, disease osition has been requested.	e pathogenesis stu		-			
3	Year: 1		Project Reseach Scientist - II (Non Medical)	2	12	7	9,060	56,923.00	1,897,440.
with stud	compound libry also involves	raries and mainter	basic (genetic, biochemical, nance of clinical isolates) and pidomics and proteomics sto ested.	d clinical (phase-l t	rial in human subject	ts assessing safet	y and pharma	cokinetics) stud	ies. The propos
4	Year: 2		Project Technical Support - II	1	12	2	3,600	8,496.00	283,200.
			support-II position has beer maintenance of animal cage	•	• •				ection of sample
	V 2		Senior Project Assistant	1	12	3	0,600	11,016.00	367,200.
5	Year: 2		Assistant						
and	<b>ification :</b> The s Pb transgenic l	lines, in vitro and	or Project Assistant is require in vivo experiments, disease osition has been requested.	e pathogenesis stu		•			

**Justification**: This proposal involves basic (genetic, biochemical, molecular biological and transgenic studies), translational (in vitro and in vivo drug screening studies with compound libraries and maintenance of clinical isolates) and clinical (phase-I trial in human subjects assessing safety and pharmacokinetics) studies. The proposed study also involves metabolomics, lipidomics and proteomics studies using high-resolution mass spectrometry and Big Data analysis Therefore, two Project Research Scientist-II positions have been requested.

Medical)

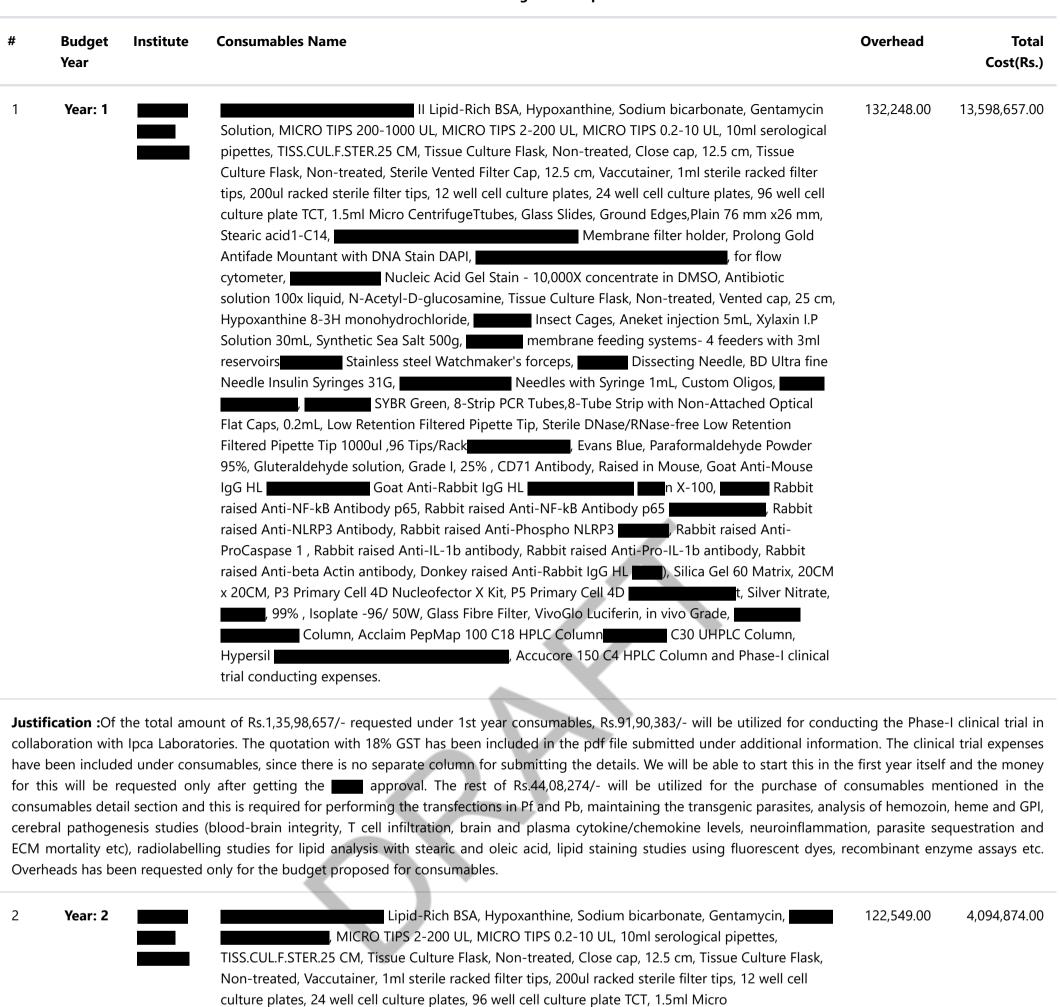
Total Cost (Rs.) 7,872,825.00

7	Year: 3		Project Technical Support - II	1	12	23,600	8,496.00	283,200.0
			cal support-II position has bee sts, maintenance of animal cag	•				on of sample
8	Year: 3		Senior Project Assistant	1	12	30,600	11,016.00	367,200.0
and	Pb transgenic	lines, in vitro a	Senior Project Assistant is requand in vivo experiments, diseasent position has been requested	se pathogenesis		3		
9	Year: 3		Project Reseach Scientist - II (Non Medical)	2	12	79,060	56,923.00	1,897,440.0
otal	Cost (Rs.)	ns have been re	questea.					7,872,825.0
				Contingency b	udget breakup details			
#	Budget Year	Institute	Contingency Name			•	Overhead Charges (Rs.)	Tot Cost(Rs
1	Year: 1		Contingency has been requirements like utilization charges as per the resolution mass spectromet maintenance expenses, pur expenses at sample collections.	e dissection box ie internal facult try and flouresce chase of softwar	es, syringes, animal feed, y utilization rates at ILS fo ence microscopy facilities, res for data analysis, acco	payment of equipment or flow cytometry, high- , routine equipment ommodation and other	21,000.00	700,000.0
Justi	<b>fication :</b> A m	inimum of 7 Lal	khs has been requested to mee	et all the require	ments provided in the Co	ontingency detail column.		
2	Year: 2		Contingency has been requirements like utilization charges as per the resolution mass spectromet maintenance expenses, pur expenses at sample collection	e dissection box ie internal facult try and flouresce chase of softwar	es, syringes, animal feed, y utilization rates a feed for ence microscopy facilities, res for data analysis, acco	payment of equipment or flow cytometry, high- , routine equipment ommodation and other	21,000.00	700,000.0
	fication ·A m	inimum of 7 Lal	khs has been requested to mee	et all the require	ments provided in the Co	ontingency detail column.		
Justi	., ., ., .,		Contingency has been requ	•	,	autoclave bags, routine payment of equipment or flow cytometry, high-	21,000.00	700,000.0

Total Cost (Rs.) 2,163,000.00

including overhead

## **Consumables Budget Breakup Details**



Mag, Sep-Pak C18 1 cc Vac Cartridge, Shield 1, Blasticidin S HCl, BODIPY 493/503, Nile Red, stable heavy isotope internal standards for metabolomics and lipidomics, mass-spectrometry grade trypsin etc.

Justification: An amount of Rs. 40,94,874/- has been requested for the purchase of consumables mentioned in the consumables detail section and this is required for performing the characterization of Pf and Pb knockout/knockdown parasites, immunoprecipitation studies for v-type proton ATPase, proteomics studies to assess its assembly, complete lipid and metabolite profiling studies by high-resolution metabolomics and proteomics studies, assessment of lipid signalling pathways, high-

CentrifugeTtubes, Stearic acid1-C14, Oleic acid 1-C14, FD-approved compound libraries,

Dissecting Needle, BD Ultra fine Needle Insulin Syringes 31G,

PCR Tubes,8-Tube Strip with Non-Attached Optical Flat Caps, 0.2mL,125 Strips/Box (Make:

Hypoxanthine 8-3H monohydrochloride, Bugdorm Insect Cages, Aneket, Xylaxin, Synthetic Sea Salt

Low Retention Filtered Pipette Tip, Sterile DNase/RNase-free Low Retention Filtered

Needles with Syringe 1mL, Custom Oligos, Lawrence aking Yeast, QuantiTect Green, 8-Strip

Pipette Tip 1000ul ,96 Tips/Rack( , , mass spectrometry grade reagents - Water for Chromatography (LC-MS), Acetonitrile Hypergrade for LC-MS, DL-Dithiothreitol, Iodoacetamide, Chloroform for Liquid Chromatography, Methanol for Liquid Chromatography, Urea, BioUltra, Sucrose for Biochem, Ammonium hydrogen carbonate for LC-MS, Formic acid, 98-100, Emprove Essential, Ammonium formate for LC-MS, LysoTracker Deep Red, GFP-Catch-Mag, mCherry-Catch-

Green I Nucleic Acid Gel Stain, Antibiotic solution 100x liquid,

throughput screening studies with FDA-approved compound libraries etc.

3	Year: 3	Centrifug TIPS 0.2- Non-trea cm, Vacc serum, a SYBR Gre orthopho levels in samples 647 anti- Reagents Sodium S Precision Uranyles	ire plates, 24 well cell culture p geTtubes, flow cytometry tubes 10 UL 1000/PK, 10ml serologic ated, Close cap, 12.5 cm, Tissu utainer, 1ml sterile racked filte ntimalarials such as quinolines een, Hepa 1-6 Cell line, osphoric acid, kits and reagent clinical isolates, RDT Kits, Real-	lates, 96 well cell cultures, 200-1000 cal pipettes, TISS.CUL.F.S e Culture Flask, Non-tre r tips, 200ul racked ster, artemisinin, dihydroard Powder, Stearic acts required for assessmentime PCR detection kits le, 200ul racked stered, Fura Reconstruction formation, Oste, EM Grade, Lead Citra Curved, Formya	DUL, MICRO TIPS 2-200 USTER.25 CM, Tissue Cultur rated, Sterile Vented Filter file filter tips, Glass Slides, temisinin, primaquine, semisinin, primaquine, and of hemozoin, GPI and for species identification d, AM, Cell Permanent, Aleody, Hoechst, DMEM/F-12 smium Tetroxide, Cacodylate, Trihydrate, ser/Carbon 200 mesh, Coperated and Carbon	IL, MICRO re Flask, r Cap, 12.5 human 4, 32P- free heme in clinical exa Fluor 2 Powder, lic Acid, ro High per,	00 3,769,757.00
vitro a parasi and in minim	and in vivo screer tes. In addition, t n vivo biolumisce num of 20 clinica	ning studies proposo the consumable sup ence studies. Furthe	/- has been requested for the ed for Pf and Pb using compo port has been requested for the er, support is required for the aplicated and severe malaria, its.	und libraries, and asses ne liver stage inhibition assessment of PAMPs	sment of antimalarial act studies using oleic acid s and DAMPs in uncomp	ivities in the oleic acid syr ynthesis inhibitors using F licated and severe malari	athesis Pb and Pf KO RT-PCR, fluorescence a clinical isolates. A
	Cost (Rs.) g overhead						21,831,177.00
			Equipm	ent Budget Breakup D	etails		
#	Budget Year	Institute	Equipment Name	Equipment Model	Equipment Manufacturer	Equipment Type	Total Cost(Rs.)
1	Year: 1					Domestic	600,000.00
			eneration of Pf and Pb transge der liquid nitrogen for preserv	•		•	ere malaria patients.
	-		ent will be purchased following ugh the scrap auction carried c	-	ions, Govt. of India. After	its life-time, the equipme	nt will be sent to the
2	Year: 1		Gradient PCR Machine			Imported	500,000.00
Justif	ication :PCR mad	chine is required for	various cloning studies to gen	erate the transgenic pa	rasites.		
	-		ent will be purchased following ugh the scrap auction carried c	-	ions, Govt. of India. After	its life-time, the equipme	nt will be sent to the
3	Year: 1		Dissection Stereo Microscope			Imported	400,000.00
	ming the in vivo	•	equired for dissecting the sali age screening studies for oleic	, ,		•	
	-		ent will be purchased following ugh the scrap auction carried c	-	ions, Govt. of India. After	its life-time, the equipme	nt will be sent to the
4	Year: 1		Nucleofector			Imported	2,400,000.00

**Consumables Budget Breakup Details** 

		Equipment Budget Breakup Details
involv		is required for performing the transfections in cuvettes and plate formats for both falciparum and berghei. The proposed study asfections and hence, nucleofector is required. The nucleofector device (basic version) procured in the PI's laboratory is of 7 years old er multiple repairs. Therefore, support for purchasing a
		ne equipment will be purchased following GFR and GeM regulations, Govt. of India. After its life-time, the equipment will be sent to the osed through the scrap auction carried out by the Institution.
		Total (Rs.):
		Travel Justification
#	Year	Amount(Rs.)
1	Year: 1	500000.00
		of Five Lakhs has been requested to perform Phase-I trial related visits to Ipca laboratories and clinical trial sites, visiting other ding workshops on metabolomics and Big data analysis etc.
2	Year: 2	500000.00
		of Five Lakhs has been requested to perform visits to clinical trial sites, Ipca laboratories, hospital partners for the collection of clinical institutions to deliver talks, attending conferences etc.
3	Year: 3	500000.00
data		of Five Lakhs has been requested to visit and and and for getting the Phase-II trial approval based on the Phase-I ospital partners for the collection of clinical isolates, field visits, other academic and nstitutions to deliver talks, attending
Total		1,500,000.00