

Proposed Budget Details

| Institute | Budget Year | Manpower Budget (Rs.) | Contingency | 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 |
| Total in (Rs.): | | 7643520 | 2100000 | 21463288 | 3900000 | 1500000 | 660194 | 37,267,002.00 |

Budget Breakup Details (Staff/Manpower)

| # | Budget Year | Institute | Designation | No. of Person(nos) | Require Month(nos) | Cost Per Person(Rs.) | Overhead(Rs.) | Total Cost(Rs.) |
|--|----------------|--------------------------|---|--------------------|--------------------|----------------------|---------------|-----------------|
| 1 | Year: 1 | ██████████ ██████████ | Project Technical Support - II | 1 | 12 | 23,600 | 8,496.00 | 283,200.00 |
| <p>Justification :One project technical support-II position has been requested for the preparation of reagents, buffers, culture medium and RBCs, collection of samples, assisting Project Research Scientists, maintenance of animal cages, insectary, project-related purchase records etc., and day-to-day lab assistance.</p> | | | | | | | | |
| 2 | Year: 1 | ██████████ ██████████ | Senior Project Assistant | 1 | 12 | 30,600 | 11,016.00 | 367,200.00 |
| <p>Justification :The support from Senior Project Assistant is required throughout this project since there is a large number of Pf and Pb transfections, maintenance of Pf and Pb transgenic lines, in vitro and in vivo experiments, disease pathogenesis studies, in vitro and in vivo screening studies etc have been included in this proposal. Hence, one Senior Project Assistant position has been requested.</p> | | | | | | | | |
| 3 | Year: 1 | ██████████ ██████████ | Project Research Scientist - II (Non Medical) | 2 | 12 | 79,060 | 56,923.00 | 1,897,440.00 |
| <p>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.</p> | | | | | | | | |
| 4 | Year: 2 | ██████████ ██████████ | Project Technical Support - II | 1 | 12 | 23,600 | 8,496.00 | 283,200.00 |
| <p>Justification :One project technical support-II position has been requested for the preparation of reagents, buffers, culture medium and RBCs, collection of samples, assisting Project Research Scientists, maintenance of animal cages, insectary, project-related purchase records etc., and day-to-day lab assistance.</p> | | | | | | | | |
| 5 | Year: 2 | ██████████ ██████████ | Senior Project Assistant | 1 | 12 | 30,600 | 11,016.00 | 367,200.00 |
| <p>Justification :The support from Senior Project Assistant is required throughout this project since there is a large number of Pf and Pb transfections, maintenance of Pf and Pb transgenic lines, in vitro and in vivo experiments, disease pathogenesis studies, in vitro and in vivo screening studies etc have been included in this proposal. Hence, one Senior Project Assistant position has been requested.</p> | | | | | | | | |
| 6 | Year: 2 | ██████████ ██████████ | Project Research Scientist - II (Non Medical) | 2 | 12 | 79,060 | 56,923.00 | 1,897,440.00 |
| <p>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.</p> | | | | | | | | |

Total Cost (Rs.)

including overhead

7,872,825.00

Budget Breakup Details (Staff/Manpower)

| | | | | | | | | |
|---|----------------|--------------------------|--------------------------------|---|----|--------|----------|------------|
| 7 | Year: 3 | ██████████ ██████████ | Project Technical Support - II | 1 | 12 | 23,600 | 8,496.00 | 283,200.00 |
|---|----------------|--------------------------|--------------------------------|---|----|--------|----------|------------|

Justification :One project technical support-II position has been requested for the preparation of reagents, buffers, culture medium and RBCs, collection of samples, assisting Project Research Scientists, maintenance of animal cages, insectary, project-related purchase records etc., and day-to-day lab assistance.

| | | | | | | | | |
|---|----------------|--------------------------|--------------------------|---|----|--------|-----------|------------|
| 8 | Year: 3 | ██████████ ██████████ | Senior Project Assistant | 1 | 12 | 30,600 | 11,016.00 | 367,200.00 |
|---|----------------|--------------------------|--------------------------|---|----|--------|-----------|------------|

Justification :The support from Senior Project Assistant is required throughout this project since there is a large number of Pf and Pb transfections, maintenance of Pf and Pb transgenic lines, in vitro and in vivo experiments, disease pathogenesis studies, in vitro and in vivo screening studies etc have been included in this proposal. Hence, one Senior Project Assistant position has been requested.

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|---|----------------|--------------------------|---|---|----|--------|-----------|--------------|
| 9 | Year: 3 | ██████████ ██████████ | Project Research Scientist - II (Non Medical) | 2 | 12 | 79,060 | 56,923.00 | 1,897,440.00 |
|---|----------------|--------------------------|---|---|----|--------|-----------|--------------|

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.

Total Cost (Rs.) including overhead **7,872,825.00**

Contingency budget breakup details

| # | Budget Year | Institute | Contingency Name | Overhead Charges (Rs.) | Total Cost(Rs.) |
|---|----------------|--|---|------------------------|-----------------|
| 1 | Year: 1 | ██████████ ██████████ ██████████ | Contingency has been requested for purchasing laboratory records, autoclave bags, routine laboratory requirements like dissection boxes, syringes, animal feed, payment of equipment utilization charges as per the internal faculty utilization rates at ILS for flow cytometry, high-resolution mass spectrometry and fluorescence microscopy facilities, routine equipment maintenance expenses, purchase of softwares for data analysis, accommodation and other expenses at sample collection sites, ██████████ application submission expenses etc. | 21,000.00 | 700,000.00 |

Justification :A minimum of 7 Lakhs has been requested to meet all the requirements provided in the Contingency detail column.

| | | | | | |
|---|----------------|--|--|-----------|------------|
| 2 | Year: 2 | ██████████ ██████████ ██████████ | Contingency has been requested for purchasing laboratory records, autoclave bags, routine laboratory requirements like dissection boxes, syringes, animal feed, payment of equipment utilization charges as per the internal faculty utilization rates at ██████████ for flow cytometry, high-resolution mass spectrometry and fluorescence microscopy facilities, routine equipment maintenance expenses, purchase of softwares for data analysis, accommodation and other expenses at sample collection sites, ██████████ application submission expenses etc. | 21,000.00 | 700,000.00 |
|---|----------------|--|--|-----------|------------|

Justification :A minimum of 7 Lakhs has been requested to meet all the requirements provided in the Contingency detail column.

| | | | | | |
|---|----------------|--|--|-----------|------------|
| 3 | Year: 3 | ██████████ ██████████ ██████████ | Contingency has been requested for purchasing laboratory records, autoclave bags, routine laboratory requirements like dissection boxes, syringes, animal feed, payment of equipment utilization charges as per the internal faculty utilization rates at ██████████ or flow cytometry, high-resolution mass spectrometry and fluorescence microscopy facilities, routine equipment maintenance expenses, purchase of softwares for data analysis, accommodation and other expenses at sample collection sites ██████████ application submission expenses etc. | 21,000.00 | 700,000.00 |
|---|----------------|--|--|-----------|------------|

Justification :A minimum of 7 Lakhs has been requested to meet all the requirements provided in the Contingency detail column.

Total Cost (Rs.) including overhead **2,163,000.00**

Consumables Budget Breakup Details

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|---|---------|--|--|------------|--------------|
| 3 | Year: 3 | | ich BSA, Hypoxanthine, Sodium bicarbonate, Gentamycin, 12 well cell culture plates, 24 well cell culture plates, 96 well cell culture plate TCT, 1.5ml Micro Centrifuge Tubes, flow cytometry tubes, 200-1000 UL, MICRO TIPS 2-200 UL, MICRO TIPS 0.2-10 UL 1000/PK, 10ml serological pipettes, TISS.CUL.F.STER.25 CM, Tissue Culture Flask, Non-treated, Close cap, 12.5 cm, Tissue Culture Flask, Non-treated, Sterile Vented Filter Cap, 12.5 cm, Vacutainer, 1ml sterile racked filter tips, 200ul racked sterile filter tips, Glass Slides, human serum, antimalarials such as quinolines, artemisinin, dihydroartemisinin, primaquine, SYBR Green, Hepa 1-6 Cell line, Powder, Stearic acid1-C14, Oleic acid 1-C14, 32P-orthophosphoric acid, kits and reagents required for assessment of hemozoin, GPI and free heme levels in clinical isolates, RDT Kits, Real-time PCR detection kits for species identification in clinical samples Luciferin, in vivo Grade, Fura Red, AM, Cell Permanent, Alexa Fluor 647 anti-Mouse CD31 antibody, Hepa 1-6 Cell line, UIS4 antibody, Hoechst, DMEM/F-12 Powder, Reagents for SEM and TEM analysis of hemozoin formation, Osmium Tetroxide, Cacodylic Acid, Sodium Salt, trihydrate, Propylene Oxide, EM Grade, Lead Citrate, Trihydrate, ro High Precision, very fine curved tips, Curved, Formvar/Carbon 200 mesh, Copper, Uranylless (Uranyl Acetate), H3K9ac Monoclonal Antibody (J.924.2) for liver stage detection, UltraPure Glycogen, FBS, etc. | 113,092.00 | 3,769,757.00 |
|---|---------|--|--|------------|--------------|

Justification :An amount of Rs. 37,69,757/- has been requested for the purchase of consumables mentioned in the consumables detail section. This is required for in vitro and in vivo screening studies proposed for Pf and Pb using compound libraries, and assessment of antimalarial activities in the oleic acid synthesis Pb and Pf KO parasites. In addition, the consumable support has been requested for the liver stage inhibition studies using oleic acid synthesis inhibitors using RT-PCR, fluorescence and in vivo bioluminescence studies. Further, support is required for the assessment of PAMPs and DAMPs in uncomplicated and severe malaria clinical isolates. A minimum of 20 clinical isolates for uncomplicated and severe malaria, respectively, will be analyzed in the first phase and the numbers will be increased if required depending on the statistical power analysis.

Total Cost (Rs.) **21,831,177.00**
including overhead

Equipment Budget Breakup Details

| # | Budget Year | Institute | Equipment Name | Equipment Model | Equipment Manufacturer | Equipment Type | Total Cost(Rs.) |
|---|-------------|-----------|----------------|-----------------|------------------------|----------------|-----------------|
| 1 | Year: 1 | | | | | Domestic | 600,000.00 |

Justification :This proposal involves the generation of Pf and Pb transgenic parasites and collection of clinical isolates from uncomplicated and severe malaria patients. These parasite stocks have to be stored under liquid nitrogen for preservation and future propagation. Hence, cryocan has been requested.

Mode of Proposed disposal :The equipment will be purchased following GFR and GeM regulations, Govt. of India. After its life-time, the equipment will be sent to the institutional warehouse and disposed through the scrap auction carried out by the Institution.

| | | | | | | | |
|---|---------|--|----------------------|--|--|----------|------------|
| 2 | Year: 1 | | Gradient PCR Machine | | | Imported | 500,000.00 |
|---|---------|--|----------------------|--|--|----------|------------|

Justification :PCR machine is required for various cloning studies to generate the transgenic parasites.

Mode of Proposed disposal :The equipment will be purchased following GFR and GeM regulations, Govt. of India. After its life-time, the equipment will be sent to the institutional warehouse and disposed through the scrap auction carried out by the Institution

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|---|---------|--|------------------------------|--|--|----------|------------|
| 3 | Year: 1 | | Dissection Stereo Microscope | | | Imported | 400,000.00 |
|---|---------|--|------------------------------|--|--|----------|------------|

Justification :Dissection microscope is required for dissecting the salivary glands of mosquitoes to collect the sporozoites. These sporozoites will be utilized for performing the in vivo and in vitro liver stage screening studies for oleic acid synthesis inhibitors. The dissection microscopes available in the PI's insectary facility have worn out.

Mode of Proposed disposal :The equipment will be purchased following GFR and GeM regulations, Govt. of India. After its life-time, the equipment will be sent to the institutional warehouse and disposed through the scrap auction carried out by the Institution.

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|---|---------|--|--------------|--|--|----------|--------------|
| 4 | Year: 1 | | Nucleofector | | | Imported | 2,400,000.00 |
|---|---------|--|--------------|--|--|----------|--------------|

Total (Rs.): 3,900,000.00

