



NOTICE INVITING TENDER

The University of Burdwan, Department of Zoology Invites E-Tender from the Original Equipment Manufacturer (OEM) or their authorized Representatives or Dealers in India through online bid submission at eProcurement System of Government of West Bengal website <https://wbtenders.gov.in/nicgep/app> for the item as per detailed specifications

1. Supply and installation of “**Mulmode Micro-plate Reader**” for DST-SERB Project No. CRG/2019/001296 (**Annexure-I**)
2. Supply of **Laboratory Consumables** for DST-SERB, GOI, Project (**Annexure-II**)

The tentative quantity and the required items of each are mentioned at Annexure’s separately.

Date and Time Schedule

1.	Date of uploading of N.I.T. & other Documents (On line)	14.05.2020
2.	Documents download start date (On line)	14.05.2020, 09.00 A.M
3.	Documents download end date (On line)	29.05.2020, 10.00 A.M
4.	Bid submission start date (On line)	14.05.2020, 09.00 A.M
5.	Bid Submission closing date (On line)	29.05.2020, 10.00 A.M
6.	Bid opening date for Technical Proposals (On line)	01.06.2020 11.00 AM
7.	Date of uploading list for Technically Qualified Bidder (On line)	To be notified later
8.	Date for opening of Financial Proposal (On line)	To be notified later

Sumit K. Hira
Dr. Sumit Kr. Hira, PhD
Assistant Professor
Cellular Immunology Lab.
Department of Zoology
The University of Burdwan
Burdwan-713104, W.B.

Room No. 14, Department of Zoology
The University of Burdwan
Burdwan - 713104, West Bengal, India
+91-9163655722

E-Mail: sumit.hira2008@gmail.com Website: <http://www.sumithira.in>



Annexure-I

DETAILED TECHNICAL SPECIFICATIONS FOR MULTIMODE MICROPLATE READER

General	<ul style="list-style-type: none"> • UV VIS absorbance, Fluorescence intensity (top/bottom read), Luminescence (glow and flash), Time-Resolved Fluorescence (TRF), Alpha screen/Alpha LISA, FRET assay detection. • Also, capability to read nano volume samples • Shaking modes linear and orbital • Temperature control: incubation to 50 degree with condensation control. • Plate compatibility:6-384 well plate
Absorbance	<ul style="list-style-type: none"> • 200-1000 nm monochromator based with 1 nm increment • Read method endpoint, kinetic, spectral scanning, well area scanning. • OD range 0-4 OD • Light source for absorbance xenon flash lamp • Detector for absorbance photo diode
Fluorescence intensity	<ul style="list-style-type: none"> • 300 – 700 nm • Bandpass filters based with 4 excitation and 4 emission filters • Must be supplied with excitation (330/80, 360/40, 485/20, 540/25, 620/40) and emission filters (460/40, 528/20, 590/35, 665/8, 680/30) • Dynamic range >6 logs • Reading method :both top probe and bottom probes are required • Light source for fluorescence (tungsten halogen/ xenon flash lamp) • Detector for fluorescence: low noise PMT
Luminescence	<ul style="list-style-type: none"> • 300-700 nm

Room No. 14, Department of Zoology
The University of Burdwan
Burdwan - 713104, West Bengal, India
+91-9163655722

E-Mail: sumit.hira2008@gmail.com Website: <http://www.sumithira.in>



	<ul style="list-style-type: none">• Dynamic range >6 decades• Sensitivity >35 amol ATP
Alpha detection	<ul style="list-style-type: none">• Light source tungsten halogen• Wavelength selection through Filters• 300 amol of biotinylated LCK-P peptide
Injector	<ul style="list-style-type: none">• Double Reagent injector for flash luminescence• Supported labware 6-384 well plate• 2 syringe pumps• Dispense volume : 5 – 1000 μL in 1 μL increments
Micro-volume Plate	<ul style="list-style-type: none">• Low volume 2 μL nucleic acid and protein quantification• 2 ng/μL dsDNA detection limit
Software for data analysis	<ul style="list-style-type: none">• Reader control, advanced data analysis, Excel export Control through USB or serial port.• Software offers a logical interface designed to easily flow from reading parameters, to plate layout, to powerful data reduction, and finally to flexible data output options.
Other	<ol style="list-style-type: none">1. Tungsten lamp replacement kit2. CE and TUV marked.3. 100-240 volts AC, @50-60Hz4. Suitable branded pc/laptop with UPS included5. One Year Warranty with Two Year additional CMC (Comprehensive Maintenance Contract)



Annexure-II

List of the chemicals, Reagents, Kits

Cluster	Item	Code	Quantity	Pack Size
1	Biolegend, USA Manufactured, commissioned Reagents and Kits			
1.01	Mouse M-CSF	576404	1.00 Nos	25 µg
1.02	anti-mouse NK-1.1	108758	1.00 Nos	1 mg
1.03	anti-mouse CD274	155402	1.00 Nos	500 µg
1.04	anti-mouse CD86	105001	1.00 Nos	50 µg
1.05	FITC anti-mouse CD80	104705	1.00 Nos	50 µg
1.06	anti-ERK1/2	686901	1.00 Nos	25 µg
1.07	anti-ERK1/2 Phospho	369501	1.00 Nos	25 µg
1.08	Purified anti-Granzyme B	662801	1.00 Nos	25 µg
1.09	Purified anti-NF-κB p105/p50	603901	1.00 Nos	25 µg
1.1	FITC anti-mouse CD69	104505	1.00 Nos	50 µg
1.11	PE Donkey anti-rabbit IgG	406421	1.00 Nos	100 µg
1.12	DyLight™ 594 Goat anti-hamster (Armenian) IgG Antibody	405504	1.00 Nos	100 µg
1.13	Purified anti-TGF-β1 Antibody	525301	1.00 Nos	50 µg
1.14	Recombinant Human TGF-β1	580709	1.00 Nos	4 pack
1.15	Purified anti-mouse IL-6	504512	1.00 Nos	1 mg
1.16	Biotin anti-mouse IL-6 Antibody	504601	1.00 Nos	50 µg
1.17	Recombinant Mouse IL-6	575709	1.00 Nos	4 pack
1.18	anti-mouse / rat IL-1β Antibody	503513	1.00 Nos	100 µg
1.19	anti-mouse IL-10 Antibody	504908	1.00 Nos	1 mg
1.2	Biotin anti-mouse IL-10	505003	1.00 Nos	50 µg
1.21	Recombinant Mouse IL-10	575809	1.00 Nos	4 pack
1.22	Purified anti-mouse IL-12/IL-23 p40	505201	1.00 Nos	500 µg

Room No. 14, Department of Zoology
The University of Burdwan
Burdwan - 713104, West Bengal, India
+91-9163655722

E-Mail: sumit.hira2008@gmail.com Website: <http://www.sumithira.in>



1.23	Biotin anti-mouse IL-12/IL-23 p40	505301	1.00	Nos	50 µg
1.24	Recombinant Mouse IL-12/IL-23 (p40)	576909	1.00	Nos	4 pack
2	Thermo Fisher Manufactured, commissioned Reagents and Kits				
2.01	Thymidine Phosphorylase	MA5-13542	1.00	Nos	500 µl
2.02	β-Actin	MA5-15739	1.00	Nos	100 µg
2.03	Thymidylate Synthase	35-5800	1.00	Nos	100 µg
2.04	Goat anti-Rat IgG (H+L) Alexa Fluor 647	A-21247	1.00	Nos	1 mg
2.05	ProLong™ Glass Antifade Mountant	P36982	1.00	Nos	2 mL
2.06	Nunc™ EasYFlask™ Cell Culture Flasks	156340	1.00	Nos	Case of 200
2.07	Nunc™ 15mL Centrifuge Tubes	339650	1.00	Nos	Case of 500
2.08	Nunc™ MicroWell™ 96-Well, Cell Culture-Treated, Black	165305	1.00	Nos	Case of 30
3	Cell Signaling Technology (CST) Manufactured, commissioned Reagents and Kits				
3.01	MyD88 (D80F5)	4283S	1.00	Nos	100 µl
3.02	Biotinylated Protein Ladder Detection Pack	7727S	1.00	Nos	650 µl
4	Genetix Biotech Asia Pvt. Ltd. Manufactured, commissioned Reagents and Kits				
4.01	Cell Culture Flasks, Non-treated	70225	1.00	Nos	5 / 200
4.02	96 Well Plates, White, TC Treated	30196	1.00	Nos	1 / 50
4.03	97 Well Plates, Black, TC Treated	30296	1.00	Nos	1 / 50
5	HiMedia Laboratories				
5.01	RPMI-1640	AL162S-500ML	1.00	Nos	18X500ML
5.02	Minimum Essential Medium Eagle	AL047S-500ML	1.00	Nos	6x500ml
5.03	RPMI-1640 w/o Phenol red	AL120A-500ML	1.00	Nos	6x500ml
5.04	DMEM	AL007S-500ML	1.00	Nos	6x500ml
5.05	Medium 199	AL209A-500ML	1.00	Nos	6x500ml

Room No. 14, Department of Zoology
The University of Burdwan
Burdwan - 713104, West Bengal, India
+91-9163655722

E-Mail: sumit.hira2008@gmail.com Website: <http://www.sumithira.in>



5.06	Syringe-driven Filters	SF142-50NO	1.00	Nos	50 nos
5.07	Sodium chloride	MB023-1KG	1.00	Nos	1KG
5.08	Sodium sulphite anhydrous	MB100-500G	1.00	Nos	500gm
5.09	Sodium carbonate anhydrous	MB253-1KG	1.00	Nos	1KG
5.1	Hydroquinone	PCT1556-100G	1.00	Nos	100gm
5.11	Metol,	GRM9721-100G	1.00	Nos	100gm
5.12	Paraformaldehyde Solution, 4%	TCL119-100ML	1.00	Nos	100ml
5.13	Sodium hypochlorite	AS102-5L	1.00	Nos	5lt
5.14	Dimethyl sulphoxide (DMSO)	TC185-100ML	1.00	Nos	100ml
6	Cayman Chemical Manufactured, commissioned Reagents and Kits				
6.01	Luzindole	15998	1.00	Nos	10 mg
6.02	SQ 22536	13339	1.00	Nos	10 mg
6.03	Forskolin	11018	1.00	Nos	1 mg
6.04	ATP Detection Assay Kit - Luminescence	700410	1.00	Nos	1 ea
7	Promega Manufactured, commissioned Reagents and Kits				
7.01	cAMP-Glo™ Assay	V1501	1.00	Nos	300 Assay
8	R&D Systems Manufactured, commissioned Reagents and Kits				
8.01	Mouse IL-15 Antibody	AF447-SP	1.00	Nos	25 ug
8.02	Mouse IL-15R alpha Antibody	AF551-SP	1.00	Nos	25 ug
8.03	Mouse IL-18 R alpha	MAB12161-SP	1.00	Nos	25 ug
8.04	Mouse IL-1 beta/IL-1F2 DuoSet ELISA	DY401-05	1.00	Nos	5 Plate
9	Sigma-Aldrich Manufactured, commissioned Reagents and Kits				
9.01	Zafirlukast	Z4152	1.00	Nos	10MG
9.02	Silibinin	S0417	1.00	Nos	1G
9.03	Tubocurarine	T2379	1.00	Nos	100GM
9.04	2',7'-Dichlorofluorescein diacetate	35845	1.00	Nos	1G

Room No. 14, Department of Zoology
The University of Burdwan
Burdwan - 713104, West Bengal, India
+91-9163655722

E-Mail: sumit.hira2008@gmail.com Website: <http://www.sumithira.in>

The University of Burdwan

सा विद्या या विमुक्तये

Learning Leads To Emancipation



Sumit Kumar Hira, PhD

सुमित कुमार हीरा, पी.एच.डी

Assistant Professor

Department of Zoology

जंतु बिज्ञान बिभाग

9.05	Poly-D-lysine hydrobromide	P6407	1.00	Nos	5G
9.06	Millex-GP Syringe Filter Unit, 0.22 μ m	SLGP033RS	1.00	Nos	1Pk
9.07	Paraplast	P3558	1.00	Nos	1Kg
9.08	Regorafenib monohydrate	Y0002090	1.00	Nos	1Pk
9.09	Fluorimetric Hydrogen Peroxide Assay Kit	MAK165-1KT	1.00	Nos	1Pk
9.1	Poly-L-lysine solution	P8920	1.00	Nos	100ML

Room No. 14, Department of Zoology
The University of Burdwan
Burdwan - 713104, West Bengal, India
+91-9163655722

E-Mail: sumit.hira2008@gmail.com Website: <http://www.sumithira.in>