Central Research Facility, IIT Kharagpur
Circular Dichroism (CD) Spectropolarimetry Laboratory

CD Sample Analysis Requisition Form

[Please go through the instructions & information's given overleaf before filling up the form & put a tick ☑ in the appropriate box.]

Booking Ref #: _____ Date: ___ / ___ / _____

User's Profile

User's Name: _____ EC / Registration # / Roll #: _____

Supervisor's Name: _____ Department / Centre / School: _____

e-mail ID: _____ @ _____ Contact No.: _____

Baseline & Sample Specifications

Baseline ID : 1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Sample ID : 1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Solvent Used : 1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Mean Residual Molar : 1. _____ 2. _____ 3. _____ 4. _____ 5. _____
Concentration **(mol / L)**

Analytical & Calculating Parameters

Wavelength Region **(nM)** : _____ Accumulation(s): _____ Temperature (°C): _____

Cuvette Path Length **(cm)** : 0.1 ☐ 0.2 ☐ 0.5 ☐ 1.0 ☐

Secondary Structure : (If **YES** then fill below 3 rows for each sample) YES ☐ NO ☐

Molecular Weight **(Da)** : 1. _____ 2. _____ 3. _____ 4. _____ 5. _____

No. of Amino Acid Residues : 1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Conc. for correction **(mg / ml)** : 1. _____ 2. _____ 3. _____ 4. _____ 5. _____

Declaration

We are confident and also certify that, the solvents and the samples submitted for analysis are non-sticky, non-corrosive, non-toxic and non-radioactive by nature, which may harm the cuvettes used or may damage the instrument's optical lenses / mirrors. We also assure that the analytical data obtained, if communicated for publication, will acknowledge this facility at CRF, IIT Kharagpur.

Category for Internal & External Users

☐ **A** (Self / Research Scholar)
☐ **B** (UG / Project)
☐ **C** (Sponsored Project work)
☐ **D** (External Organizations)

Who will pay?

☐ Institute (Dept non-plan grant)
☐ SRIC: Project Code ☐

User's Sign.

Supervisor's Sign. (with date)

Sign. of HOD / HOC / PI (with date & seal)

For Lab. Use Only

Analyzed on: _____ No. of Slots: _____ Amount charged: ₹ _____

Remarks (if any):

Operator I/C **Prof-In-Charge (CD Lab)**

General Instructions

- Users are advised to report at the CD Spectrometry Laboratory, 1st flr., Old Block, CRF ***(Room No.: FF - 5)*** at least 5 minutes before the slot allotted date and time.
- They must bring the sample analysis requisition form and their own solutions, solvents, etc. as needed by them along with the samples to the CD lab. on the day. They should bring the solvent in reasonable amount for thorough rinsing and cleaning of cuvette before, during and after its use.
- A maximum of **06 samples (including 01 buffer solution)** per slot booked is be accepted. Each and every scan recorded will be considered as one sample.
- In the declaration section the signature of HOD / HOC (with seal) or signature of PI (with seal) of the sponsored / consultancy project is very much essential before the analysis is carried out.
- Samples will not be taken up for analysis unless the sample submission form is filled up properly in all respect as mentioned above.
- If any other specific parameters (apart from those given) are desired, then can be discussed personally with the CD Operator in-charge at the time of analysis.
- External users would have to pay for the analysis in advance as given below in the form of A/c payee demand draft drawn in favour of **"Indian Institute of Technology, Kharagpur"**.
- The charges for analysis are as under and the duration of **one slot is equivalent to One Hour**.

Internal Users		**External Users**	**Industrial Users**
Institute	**Project**	**Academic / R & D**	
₹ 600 /- per slot	₹ 720 /- per slot	₹ 1,200 /- per slot	₹ 3,000 /- per slot + GST

Useful Information

Cuvettes available	Path Length	Volume	Path Width
	0.1 cm (1 mm)	0.35 ml	10 mm
	0.2 cm (2 mm)	0.70 ml	10 mm
	0.5 cm (5 mm)	1.70 ml	10 mm
	1.0 cm (10 mm)	3.50 ml	10 mm

Users are advised to bring sufficient quantity of Samples so that the cuvettes can be rinsed with the same for at least 3 times before final scan and also the Buffers for cleaning the Cuvette used at the beginning & at the end of each scan.

*****