**INSTITUTE OF NANO OPTOELECTRONICS**

**RESEARCH AND TECHNOLOGY (INOR)**

UNIVERSITI SAINS MALAYSIA (USM)

Block A, Ground Floor, SAINS@USM, No.10, Persiaran Bukit Jambul 11900 Bayan Lepas, Penang, Malaysia.

T:+604-653 5637/5638 | F:+604-653 5639

**FABRICATION PROCESS REQUEST FORM**

|  |  |  |
| --- | --- | --- |
| Requestor Name | : |  |
|  |  |  |  |  |  |  |  |  |
| Contact No. | : |  | Email | : |  | Date | : |  |
|  |  |  |  |  |  |  |  |  |
| School/Company  | : |  |
|  |  |  |  |  |  |  |  |
| Category | : |  | INOR Staff/Student |  | Other Dept. | : |  |  |
|  |  |  |  |  |  |  |  |
| Sample Type | : |  | Powder |  | Thin Film |  | No. of Sample | : |  |
|  |  |  |  |  |  |  |  |  |  |
| Materials | : |  |
|  |  |  |  |  |  |  |  |  |  |
| Substrate | : |  |

|  |
| --- |
| ***Please Tick Appropriate Box*** |
|  | **EQUIPMENT** |
|  |
|  |  |  |  |  |
|  | **3-Zone Furnace** |  | **Single Zone Furnace** |  |  | **E-Beam Evaporator** |
|  |  |  |  |  |
|  |  | Metallization |  | Metallization |  |  |  | Without source material and crucible |
|  |  |  |  |  |  |
|  |  | Oxidation |  | Oxidation |  |  |  | With source material & crucible  |
|  |  |  |  |  |  |
|  | **3-Zone Furnace with NH3 Cracker (Nitridation)** |  |  | **Inductive Couple Plasma Etching System (ICP)** |
|  |  |  |  |  |
|  | **Degas Vacuum System** |  |  |  | Using Cl & BCl3 (e.g. GaN) |
|  |  |  |  |  |  |
|  | **UV-Ozone Cleaner** |  |  |  | Other gases except Cl & BCl3 (e.g. Si, ITO, ZnO) |
|  |  |  |  |  |  |
|  | **Glove Box** |  |  | **Rapid Thermal Processor System (RTP)** |
|  |  |  |  |  |
|  |  | Vacuum |  | Nitrogen |  |  | **Mask less Lithography [direct write, complete process]** |
|  |  |  |  |  |
|  | **Spin Coater** |  |  |  | Sample with pre-coat PR |
|  |  |  |  |  |
|  | **Hotplate** |  |  |  | Sample without pre-coat PR |
|  |  |  |  |  |
|  | **Laminar Flow** |  |  |  |  |
|  |  |  |  |  |
|  | **Fume Hood** |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |
|  |  |  |  |  |

|  |
| --- |
| **Other information about the sample** *(e.g. sample stability/temperature)* **:** |
|  |
|  |  |
| **Requestor Signature:**  | **Supervisor Approval:***(if Students, need to get the approval from Supervisor)*  |