

**EXPRESSION OF INTEREST FOR COMMERCIALIZATION OF R&D PROCESSES
DEVELOPED BY NALCO (EITHER IN-HOUSE OR WITH ITS COLLABORATOR)**

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NALCO invites Expression of Interest from interested parties including startups for possible commercialization of various processes/projects developed by NALCO through Research and Development, either In-house or in association with a Collaborator (as per the list given below).

LIST OF PROJECTS FOR COMMERCIALIZATION.

SL No	Project	Collaborator/inhouse/Scale
1	A process for production of cement from refractory portion of SPL.	NCCBM/Bench scale
2	Surface Coated Micro-fined Alumina Tri-hydrate and process for preparation thereof.	NALCO/lab scale
3	Ultra fine, low bulk density alumina tri hydrate and process for preparation thereof.	NALCO/lab scale
4	Development and production of wear resistance ceramic tiles from NALCO fly ash	IIT Kharagpur/bench scale
5	A process for the production of Aluminium based metal-matrix composite reinforced with in-situ alumina –silicon carbide-carbon ceramic composite.	IMMT/Lab scale
6	Low temperature electro-refining process for production of high purity aluminium (4N & above)	IIT Bbsr/lab scale
7	Development of process for production of pure & white alumina tri hydrate(ATH) for solid surface application	IMMT/Lab scale
8	Controlled heat treatment process for destruction of leachable toxic cyanide in first cut spent potliling material of aluminium smelter.	JNARDDC/Lab scale
9	An innovative & viable process for recovery of iron values from the redmud & processing of non-iron material for developing value added products, complete utilisation of redmud.	JNARDDC, IMMT & EESAVYASA Pvt Ltd/bench scale

10	Low ferric alum for low grade dross	JNARDDC/lab scale
11	Light weight foam bricks utilising red mud & fly ash	JNARDDC/pilot scale
12	Improvement in oxidation behaviour of calcined petroleum coke used for production of anodes in aluminium industry.	NALCO/lab scale
13	Process for selective leaching of iron from alumina	JNARDDC/lab scale
14	Determination of Ca in alumina hydrate/ calcined alumina & process liquor	JNARDDC/lab scale
15	Fabrication of pervious concrete from fly ash	KIIT/bench scale
16	Graphene doped aluminium and aluminium alloys with enhanced properties	IIT Bbsr/lab scale
17	Development of innovative & robust process of anti-microbial coating on Al substrates	KIIT/Lab scale
18	Geopolymer concrete from coal ash and red mud	IIT BBSR/Bench scale

NCCBM -National Council for cement and building material ,Delhi

KIIT -Kalinga Institute of Industrial Technology,BBSR

JNARDDC-Jawaharlal Nehru Aluminium Research Development and Design Centre,Nagpur

IIT- Indian Institute of Technology

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