

Draft concept note

Background:

Today's world is undergoing the 'Knowledge Revolution' – fuelled by the pace of science & technological change. Without science, our society would not advance in our technology. Science and technology have profoundly influenced the course of human society, and provided us remarkable insights. The scientific revolutions of the 20th century have led to many technologies, which promise to herald wholly new eras in many fields.

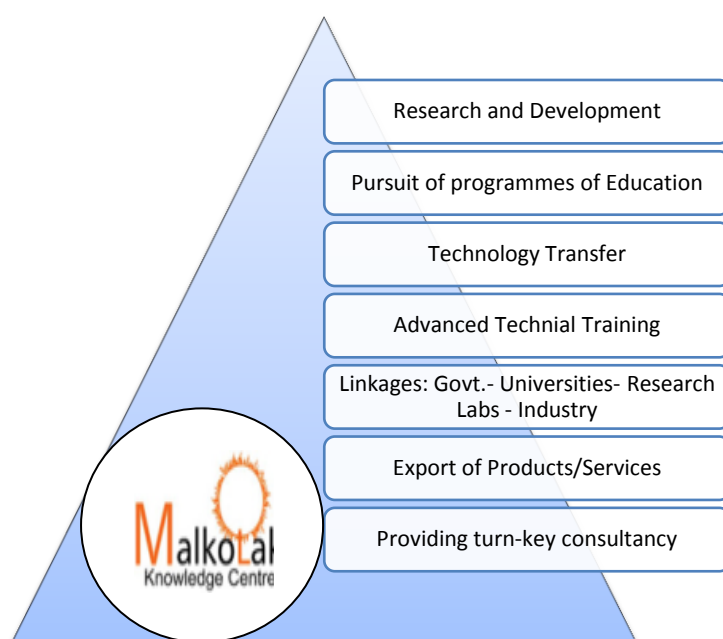
Research and development (R&D) is at the helm of scientific and technological progress which has resulted in great advancement in the human society. Scientific research comprises a wide variety of fields ranging from the study of different branches of science to relatively advanced fields like space exploration, human genetics and cloning, nano-technology, etc. Scientific research attempts to explore and understand the functioning of the physical world, analyze the occurrences in nature and gain knowledge through experimentation. Research in science and technology has paved a path to many brilliant inventions and discoveries. Apparently, through scientific research several impossible things have been made possible. The advancements in science & technology have revolutionised the human life.

Science & Technology in India: Science and technology have been an integral part of Indian civilisation and culture over the past several millennia. India was the fountainhead of important foundational scientific developments and approaches. These cover many great scientific discoveries and technological achievements in many fields. Though a great deal of achievements traveled outwards from India, India also assimilated scientific ideas and techniques from elsewhere, with a rational attitude, characteristic of a scientific ethos. India's traditions have been founded on the principles of universal harmony, respect for all human beings and an integrated holistic approach. This background is likely to provide valuable insights for future scientific advances.

About Malkotak: Malkotak, a registered trust founded by a strong team of professionals who worked both in the public domain and private sector at the higher echelons with a clear

vision & mission to realise the strong potential that exists to match knowledge and opportunities in India and abroad, and to realize enormous wealth in Frontier areas. Malkolal has visualised a framework that draws in people with innovative ideas, as well as capability in areas of cutting-edge technologies, while serving as a hub for collaboration in knowledge creation, innovation and technological breakthroughs. The main objective is to satisfy the felt needs of scientists, experts, industrialists and entrepreneurs in the pursuit of technological advancement for the benefit of the society and sustainable development of the nation.

The mission of Malkolal will be accomplished by the following activities:



Thematic Resource Programme (TRP):

There are number of gaps have been identified in the areas of science & tehcnology by the planning commission Govt. of India. There is not a platform where people from backgrounds i.e. academicians, industry, Govt., can have an open discussion for convergence of ideas. Most of these areas in our country are dependent on other countries. With this perception Malkolal wants to initiate Thematic Resource Programme in partnership with Research institutes, Universities, Industries, service organizations, corporate bodies, etc., across the country, to provide an opportunity for participants from diverse fields to have open discussion on latest trends in science and technology and to pave a way to prospective research scholars in life sciences by widening their perspectives.

Theme of proposed workshop: "the contribution of science, technology and scientific research towards sustainable development".

Workshop Content: The workshop will deliberate on the following:

- Identification of key research areas which will lead to some breakthroughs
- Identification of key research people and good research laboratories for various research purposes
- Inviting major tie ups - partnership and collaborations in R & D
- Facilitating linkage among and between research institutions – universities - industry

Participants: It is suggested that there should be a maximum of 50 participants representing several categories of stakeholders with a good gender balance: The combination of participants from academic institutions and industry will allow for exchange of knowledge, ideas and experiences as well as opportunities for networking and collaboration. Normally, the partner/host organization will take the responsibility of publicity and mobilize participants for the workshop.

Criteria for Participants: The participants should possess the following criteria:

- Those who have master's degree in Science/Tech. – M.Sc./M.Tech.
- Those who have Ph.D in life sciences.
- Young scientists - Those who have been involved actively in research & development field.
- Participants who perform management functions in the middle and upper level of a government, industry or service sectors.
- Participants must have good command of English, both in verbal and writing.

Resource persons: Resource persons will include life sciences Scientists, experts from industry, as well as other local subject experts from universities and research institutions. Resource persons will be required to submit a brief write-up on their chosen topic beforehand.

Modes of Delivery: The technical workshop will be delivered by using the combinations of the following methods:

- Brainstorming: Conducting brainstorming sessions to generate innovative ideas on the thrust areas. It will be most lively and openly collaborative, allowing all participants to build on each others' ideas and insights.
- Technical sessions -lectures & Presentations.
- Study visits to selected local research institutions, labs. Industries, etc.

Expected Outcomes: The outcomes of the technical workshop are:

- All participants will gain the necessary knowledge and experience on new trends.
- The establishment of networking among & between participants from diverse fields.
- Participants trained from these workshops can provide training and leadership in follow-up activities.

Resources: Malkolak encourages the partner/host institution/organisation to mobilise funds from local sources for organising technical workshops. However; Malkolak will also share the workshop expenditure with host/partner institution by providing a token amount of Rs. 10,000, to meet some expenses like printing of study material, handouts/booklets, kits for participants, honorarium of resource persons, etc.

Follow-up activities:

- Conducting advanced technical workshops & seminars for university students for updating of knowledge on latest trends.
- Registering more students for Ph.D programmes in identified areas.
- Providing project experience/ hands-on experience to students in identified areas.
- Networking with panel of experts/key researchers, research laboratories, etc.

Proposed Schedule: (for one-day workshop)

Time	Activity
09.30 am	Registration
10:00 am	Inaugural session
10:30 am	Technical session-i
11:45 am	Technical session-ii
01:30 pm	Lunch break
02:30 pm	Brainstorm / group discussion
03:30 pm	Study visits to select research institutions, labs., etc.
05:30 pm	Valedictory session

For Details

PROGRAMME COORDINATOR
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