

Annexure 3

**List of Countries
Where CSIR has MOUs / Agreements for Bilateral Scientific Cooperation with R&D
Agencies**

S. No	Country	S. No	Country
Europe			
1.	Germany (Six arrangements)	2.	Poland
3.	United Kingdom	4.	Czech
5.	France	6.	Slovak
7.	Italy	8.	Bulgaria
9.	The Netherlands	10.	Romania
11.	Russia		
Middle – East / Africa			
12.	Jordan	13.	Kuwait
14.	Nigeria	15.	Saudi Arabia
16.	Iraq	17.	Turkey
18.	Iran	19.	Oman
20.	Sudan	21.	South Africa
22.	Israel		
Australasia – Pacific			
23.	Japan	24.	South Korea
25.	China	26.	Mongolia
27.	Australia	28.	Nepal
29.	New Zealand	30.	Srilanka
31.	Thailand	32.	Bangladesh
33.	Singapore	34.	Vietnam
Americas & Caribbean			
35.	Brazil	36.	Guyana
37.	Canada	38.	Jamaica
39.	Cuba	40.	Peru
41.	Fiji	42.	USA

LIST OF CONTACT PERSONS

BIOLOGICAL SCIENCES GROUP	
LABORATORY	CONTACT PERSON
1. Center for Cellular & Molecular Biology, Hyderabad	Dr. Lalji Singh (Director) lalji@ccmb.res.in Dr. Mercy Joseph, Head – PME mercy@ccmb.res.in Uppal Road, Hyderabad – 500 007 Ph: 040-27160101 / 27192587
2. Institute for Genomics and Integrative Biology, New Delhi	Mr. Hemant Kulkarni / Dr. Rekha Chaturvedi, Head – PME Division hk@igib.res.in , rchat@igib.res.in Delhi University Campus, Mall Road, Delhi – 110 007 Ph: 011-27666158 / 27662691
3. Institute of Himalayan Bioresource Technology, Palampur	Dr. P.S. Ahuja (Director) / Dr. Aparna M. Pati, Incharge – PPME director@ihbt.csir.res.in Palampur – 176 061 (Himachal Pradesh) Ph: 01894-230411
4. Indian Institute of Chemical Biology, Kolkata	Dr. K.P. Mohanakumar / Dr. T.K. Dhar mohankumar@iicb.res.in / tkdhar@iicb.res.in 4, Raja S.C. Mullick Road, Jadavpur, Kolkata – 700032 Ph: 033-24733491 / 24730492
5. Central Drug Research Institute, Lucknow	Dr. C.M. Gupta (Director) / Dr. D.N. Upadhyaya, Scientist –Business Development. drcmg@satyam.net.in , dnupadhyay@yahoo.co.uk Chattat Manzil Palace, Post Box No. 173, Lucknow – 226 001 Ph: 0522-2212411-18

LABORATORY	CONTACT PERSON
6. Central Institute of Medicinal and Aromatic Plants, Lucknow	Dr. S.P.S. Khanuja (Director) director@cimap.res.in Kukrali Picnic Spot Road, P.O. CIMAP, Lucknow – 226 015 Ph: 0522-2359623 / 2357134
7. National Botanical Research Institute, Lucknow	Dr. P. Pushpangadan (Director) / Dr. S.K.S. Rathore, Head – Information & Liaison directornbri@satyam.net.in , s.k.s.rathore@nbri.res.in Rana Pratap Marg, Lucknow – 226 015 Ph: 0522-2205848 / 2205839
8. Institute of Microbial Technology, Chandigarh	Dr. Naresh Kumar, Head – Project and Technology Management Group naresh@imtech.res.in Sector 39-A, Chandigarh – 160 036 Ph: 0172-2690263
9. Regional Research Laboratory, Jammu Tawi	Dr. R.K. Raina, Chairman – PME Division Raina_rk2@rediffmail.com Canal Road, Jammu Tawi – 180 001 Ph: 0191-2547850
10. Indian Toxicology Research Centre, Lucknow	Head – RPBD / Dr.B.D. Bhattacharji, Scientist, RPBD / Dr. K.C. Khulbe, Scientist, RPBD gupta_ilo@yahoo.com Mahatma Gandhi Marg, Post Box No. 80, Lucknow - 226 001 Ph: 0522-2211547
11. Central Food Technology Research Institute, Mysore	Dr. V. Prakash (Director) / Dr. G. A. Krishna, Head – Planning, Monitoring & Coordination Department director@cftri.com , plan@cscftri.res.nic.in Cheluvamba Mansion, Mysore – 570 020 Ph:0821-2514534

CHEMICAL SCIENCES GROUP	
LABORATORY	CONTACT PERSON
12. Central Electro Chemical Research Institute, Karaikudi	Director / Dr. R. Mallika, Scientist cecrittbd@rediff.com ; cecri@csir.res.in Karaikudi – 630 006 (Tamil Nadu) Ph: 04565-227550 / 59
13. Central Salt and Marine Chemicals Research Institute, Bhavnagar	Dr. P.K.Ghosh (Director) / Dr. A.S.Mehta, Head-BDIM salt@csir.res.in Gijuhai Badheka Marg, Bhavnagar – 364 002 Ph: 0278-2567760 / 2568114
14. Central Leather Research Institute, Chennai	Dr. T. Ramasami (Director) / Dr. A. Subbarama Naidu, Head – Business Processes Division bpdclri@yahoo.com ; bpd@clrim.org Sardar Patel Road, Adyar, Chennai – 600 020 Ph: 044-24915238 / 24911386
15. Indian Institute of Chemical Technology, Hyderabad	Dr. J. S. Yadav (Director) yadav@iict.res.in Tarnaka, Uppal Road, Hyderabad – 500 007 Ph: 040 – 27193030 / 27193234
16. Indian Institute of Petroleum, Dehradun	Dr. S. N. Sharma, Head - RPBD snsharma@iip.res.in P.O. Mokhampur, Dehradun- 248 005 Ph: 0135-2660124
17. National Chemical Laboratory, Pune	Dr. S. Sivaram (Director) / Dr.P.Venugopal, Head-BD prs@ems.ncl.res.in ; sivaram@ems.ncl.res.in Dr. Homi Bhabha Road, Pashan, Pune – 411 008 Ph: 020-5893030
18. Regional Research Laboratory, Jorhat	Dr. P.G. Rao (Director) drrljt@csir.res.in ; pgrao24@hotmail.com Jorhat – 785 006 (Assam) Ph: 0376-2370012

PHYSICAL AND INFORMATION SCIENCES GROUP	
LABORATORY	CONTACT PERSON
19. National Physical Laboratory, New Delhi	Director / Dr. N.K. Babbar dnpl@mail.nplindia.ernet.in K.S. Krishnan Marg, New Delhi – 110 016 Ph: 011-25846296/25726931
20. National Institute for Science, Technology And Development Studies, New Delhi	Prof. Rajesh Kochhar (Director) / Dr. V.P. Kharbanda, Head PME root@nistads.res.in Pusa Gate, K.S. Krishnan Marg, New Delhi – 110 012 Ph: 011-25847379/1384/3385
21. National Institute of Science Communication And Information Resources, New Delhi	Mr. V.K. Gupta (Director) / Dr. S. Sivakamasundari vkq@niscair.res.in ; coa@niscair.res.in Pusa Gate, Dr. K.S. Krishnan Marg, New Delhi – 110 016 Ph: 011-25846024/8385
22. National Institute Oceanography, Goa	Director / Dr. A.C. Anil, Project Leader / Dr. C.T. Achuthankutty, Head BPG / Dr. Rahul Sharma, Head HRD / Dr. S.P. Fondekar, Head SPMG ocean@darya.nio.org Dona Paula, Goa – 403 004 Ph: 0832-2450450
23. National Geophysical Research Institute, Hyderabad	Dr. V.P. Dimri (Director) / Dr. K. Hari, Head PME Director@ngri.res.in ; director@ngri.sify.net Post Bag No. 724, Uppal Road, Hyderabad – 500 007 Ph: 040-27170141/23434600
24. Central Scientific Instruments Organization, Chandigarh	Dr.R.P.Bajpai (Director)/Sh S.K.Angra, Scientist BDG sk_angra@rediffmail.com Sector 30-C, Chandigarh – 160 030 Ph: 0172-2657190/2656285
25. Central Electronics & Electrical Engineering Research Institute, Pilani	Dr. Chandra Shekhar (Director) / Dr. N.K. Swami, Head RPBD chandra@ceeri.ernet.in ; swami@ceeri.ernet.in Pilani – 333 031 (Rajasthan)Ph: 01596-242242/242111

ENGINEERING SCIENCES GROUP	
LABORATORY	CONTACT PERSON
26. National Environmental Engineering Research Institute, Nagpur	Dr. R. Sarin / Dr. S. P. Pande, Dy. Director, Head – RDPBD rpb dneeri@yahoo.co.in ; drsarin_ngp@sancharnet.in Nehru Marg, Nagpur – 440 020 Ph: 0712-2249886-88
27. National Metallurgy Laboratory, Jamshedpur	Prof. S.P. Mehrotra (Director) / Dr. Swatantra Prakash, Dy. Director & Head BDM director@nmlindia.org ; sprakash@nmlindia.org P.O. Burmamines, Jamshedpur – 831 007 Ph: 0657-2271715
28. Regional Research Laboratory, Tiruvananthapuram	Dr. T.K. Chandrashekhar (Director) / Mr. S. Suresh Kumar, Dy. Director & Head Planning / Dr. C. Arumughan, Dy. Director & Head Agro Processing / Dr. K.G.K. Warriar, Dy. Director & Head Ceramic Technology root@csrrlrd.ren.nic.in ; rllvm@md2.vsnl.net.in Industrial Estate– P.O., Thiruvananthapuram–695019 Ph: 0471-2490674 / 2490224 / 2490811
29. Regional Research Laboratory, Bhubaneswar	Dr. Vibhuti N. Misra (Director) dir@rrlbhu.res.in Bhubaneswar – 751 013 (Orissa) Ph: 0674-2581126
30. Regional Research Laboratory, Bhopal	Director / Dr. A.K. Jha, Scientist / Dr. S. Das, Scientist EII / Dr. Mohini Saxena, Scientist E II jhaamolkumar@hotmail.com ; sdas@rrlbpl.org ; saxenamohini@hotmail.com Hoshangabad Road, Bhopal – 462 026 Ph: 0755-2587244 / 2587609 / 2485085

LABORATORY	CONTACT PERSON
31. National Aerospace Laboratories, Bangalore	Dr. B.R.Pai (Director) director@css.nal.res.in ; paibr@yahoo.com Post Bag No. 1779, Bangalore – 560 017 Ph: 080-25270584, 25265579
32. Structural Engineering Research Centre, Chennai	Dr. N. Lakshmanan (Director) director@sercm.org ; nlaxman@sercm.csir.res.in CSIR Campus, Post Box No. 8287, Taramani, Chennai - 600 113 Ph: 044-22542139
33. Central Road Research Institute, New Delhi	Prof. P.K. Sikdar (Director) / Dr. R.S. Bhardwaj, Head Information Liaison & ISO psikdar@crriidom.org ; root@cscrri.res.nic.in Delhi – Mathura Road, P.O. CRRI, New Delhi – 110 020 Ph: 011-26832173/26831760
34. Central Mechanical Engineering Research Institute, Durgapur	Dr. G.P. Sinha (Director) gopalsinha@hotmail.com ; director@cmeri.res.in Mahatma Gandhi Avenue, Durgapur – 731 209 Ph: 0343-2546749/2546818
35. Central Building Research Institute, Roorkee	Dr. V.K. Mathur (Director) director@cbrimail.com ; director@cbriroorkee.com Roorkee – 247 667 Distt. Hardwar, U.A. Ph: 01332-272243/235/630/655
36. Central Fuel Research Institute, Dhanbad	Dr. Kalyan Sen (Director) / Dr.S.Krishnan, Head PME Dnb_dcfri@sancharnet.in P.O. FRI, Dhanbad – 828 108 (Jharkhand) Ph: 0326-2381001 / 010

LABORATORY	CONTACT PERSON
37. Central Glass and Ceramic Research Institute, Kolkata	Shri Subrata K. Ghosh, Head PMD / Shri T.K. Ghoshal, Scientist PMD / Dr. D. Basu, Head – Oxides & Bio-Ceramics Divn. director@cgcri.res.in ; root@cscgcri@ren.nic.in 196, Raja S. C. Mullick Road, kolkata – 700 032 Ph: 033-4735829 / 3469 / 76 / 77
38. Central Mining Research Institute, Dhanbad	Dr. Biswajit Paul, Scientist, BDIL biswajitpaul@cmri@yahoo.co.in ; dcmri@csir.res.in Barwa Road, Dhanbad, Jharkhand – 826 001 Ph: 0326-2202326/ 3043

LIST OF LABORATORIES VISITED
&
PERSONAL INTERACTIONS HELD

S. No.	Name of Laboratory
1.	National Physical Laboratory, New Delhi
2.	National Institute of Science, Technology And Development Studies, New Delhi
3.	Central Road Research Institute, New Delhi
4.	Institute of Genomics and Integrative Biology, New Delhi
5.	National Geophysical Research Institute, Hyderabad
6.	Indian institute of Chemical Technology, Hyderabad
7.	Center for Cellular and Molecular Biology, Hyderabad
8.	Central Drug Research Institute, Lucknow
9.	Central Institute of Medicinal and Aromatic Plants, Lucknow
10.	National Botanical Research Institute, Lucknow
11.	Indian Toxicology Research Center, Lucknow

QUESTIONNAIRE

For Study On
“EXPORTABLE R&D SERVICES IN THE CSIR SYSTEM”

Part-I

1. Name of the Laboratory:				
a) Contact Person:				
b) Address:				
c) Phone No:			e) E-mail:	
d) Fax No.:			f) Website Address:	
2. Manpower :				
	<u>Ph.Ds</u>	<u>PG</u> <u>s</u>	<u>Total</u>	
a) Scientists:				c) Technicians:
b) Engineers:				d) Supporting Staff:

Part-II

3. Area of Core Competence and Technical Expertise:

	<u>Area of Competence</u>	<u>Available Manpower (Nos.)</u>
a.		
b.		
c.		
d.		

4. Major R&D facilities available for R&D work:

- a.
- b.
- c.
- d.

5. No. of patents (For details please use separate sheet)

	Applied			Granted
	Indian	PCT with designated countries	Subject of Patent	
2000-01				
2001-02				
2002-03				

6. Title of Papers Published (for details please use separate sheet)

2000-01	
2001-02	
2002-03	

7. Consultancy Assignments / Sponsored Projects / Contract Research undertaken for Overseas clients (For details please use separate sheets):

- a) Title of Assignment
- b) Client Details
- c) Value of Work:
- d) Duration of Work
- e) Basis of Securing Assignment
- f) Brief Description of Assignment
- g) Feedback Received from Client, if any

8. Type/Nature of R&D Services the laboratory can offer to clients abroad:

(i) R&D Services

- a.
- b.
- c.
- d.

(ii) Target Markets/Regions

- a.
- b.
- c.
- d.

9. Constraints faced in export of R&D Services:

- lack of market information
- Bureaucratic bottlenecks
- International regulations
- Others (Pl. specify)
- Inferior quality of services as compared to competitors
- National regulations
- Lack of resources (Finance, HR, etc.)

10. Suggestions to overcome constraints in enhancing exports of R&D Services: