

ANNEXURE-A

(Referred to in para 3.1)

List of Laboratories of Council of Scientific and Industrial Research

Sl. No.	Abbreviation	Full Name
1.	CBRI	Central Building Research Institute, Roorkee
2.	CCMB	Centre for Cellular & Molecular Biology, Hyderabad
3.	CDRI	Central Drug Research Institute, Lucknow
4.	CERI	Central Electrochemical Research Institute, Karaikudi
5.	CEERI	Central Electronics Engineering Research Institute, Pilani
6.	CFRI	Central Fuel Research Institute, Dhanbad
7.	CFTRI	Central Food Technological Research Institute, Mysore
8.	CGCRI	Central Glass & Ceramic Research Institute, Kolkata
9.	CIMAP	Central Institute of Medicinal & Aromatic Plants, Lucknow
10.	CLRI	Central Leather Research Institute, Chennai
11.	CMERI	Central Mechanical Engineering Research Institute, Durgapur
12.	CMRI	Central Mining Research Institute, Dhanbad
13.	CRRRI	Central Road Research Institute, New Delhi
14.	CSIO	Central Scientific Instruments Organisation, Chandigarh
15.	CSMCRI	Central Salt & Marine Chemicals Research Institute, Bhavnagar
16.	CBT	Centre for Biochemical Technology, New Delhi [▼]
17.	IHBT	Institute of Himalayan Bioresource Technology, Palampur
18.	IICB	Indian Institute of Chemical Biology, Kolkata
19.	IICT	Indian Institute of Chemical Technology, Hyderabad
20.	IIP	Indian Institute of Petroleum, DehraDun
21.	IMT	Institute of Microbial Technology, Chandigarh
22.	INSDOC	Indian National Scientific Documentation Centre, New Delhi [■]
23.	ITRC	Industrial Toxicology Research Centre, Lucknow
24.	NAL	National Aerospace Laboratories, Bangalore
25.	NBRI	National Botanical Research Institute, Lucknow
26.	NCL	National Chemical Laboratory, Pune
27.	NEERI	National Environmental Engineering Research Institute, Nagpur
28.	NGRI	National Geophysical Research Institute, Hyderabad
29.	NIO	National Institute of Oceanography, Goa
30.	NISCOM	National Institute of Science Communications, New Delhi [■]
31.	NISTADS	National Institute of Science, Technology And Development Studies, New Delhi
32.	NML	National Metallurgical Laboratory, Jamshedpur
33.	NPL	National Physical Laboratory, New Delhi
34.	RRL(BHO)	Regional Research Laboratory, Bhopal
35.	RRL(BHU)	Regional Research Laboratory, Bhubaneswar
36.	RRL(JAM)	Regional Research Laboratory, Jammu
37.	RRL(JOR)	Regional Research Laboratory, Jorhat
38.	RRL(TVM)	Regional Research Laboratory, Thiruvananthapuram
39.	SERC	Structural Engineering Research Centre, Chennai

[▼] renamed as Institute of Genomics and Integrative Biology (IGIB), New Delhi

[■] merged and renamed as National Institute of Science Communication and Information Resources, New Delhi

ANNEXURE – B

(Referred to in para 3.1)

Statement showing expenditure under modernisation plan and targets fixed by the laboratories in 1998

Sl. No.	Name of the laboratory	Modernisation expenditure (97-03) Rs. in lakh	Proposed ECF (Rs. in lakh)	Publication	Products	Patents	Licensing Premium (Rs. in lakh)	Technology transfer
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
1.	CGCRI, Kolkata	494.52	3930.00	0	0	0	0	0
2.	CFRI, Dhanbad	406.79	2610.00	0	0	0	0	0
3.	CFTRI, Mysore	926.64	4650.00	0	0	351	0	87*
4.	NEERI, Nagpur	492.81	19790.00	0	0	0	0	490.00#
5.	CDRI, Lucknow	1646.23	6141.36	0	0	0	4470	0
6.	CMERI, Durgapur	1200.14	7160.00	95	38	32	0	0
7.	IICT, Hyderabad	1140.29	13190.00	0	0	0	0	0
8.	RRL, Jammu	540.19	665.00	0	0	0	0	0
9.	RRL, Jorhat	555.66	2395.00	597	0	104	0	0
10.	CLRI, Chennai	828.49	5665.00	0	0	47	0	0
11.	CBRI, Roorkee	688.52	5666.81	0	0	0	0	0
12.	NGRI, Hyderabad	957.51	8050.00	0	0	0	0	0
13.	ITRC, Lucknow	553.78	1750.00	275	0	0	0	0
14.	NCL, Pune	1208.12	19727.00	0	0	0	0	0
15.	SERC, Chennai	666.39	1996.32	0	0	0	0	0
16.	CECRI, Karaikudi	493.94	2910.00	0	0	0	0	0
17.	CEERI, Pilani	421.50	4370.00	0	0	0	0	0
18.	NBRI, Lucknow	482.00	2470.00	0	0	35	0	0
19.	NAL, Bangalore	1804.99	20200.00	0	0	0	0	0
20.	RRL, Thiruvananthapuram	686.96	4950.00	0	0	0	0	0
21.	CCMB, Hyderabad	625.82	10743.00	NQ	0	0	0	0
22.	IICB, Kolkata	628.72	1385.00	0	0	0	0	0
23.	IIP, Dehradun	683.56	1812.50	0	0	0	0	0
24.	CRRI, New Delhi	486.75	1487.00	0	0	0	0	0
25.	CSIO, Chandigarh	874.79	1512.00	0	0	0	0	0
26.	NML, Jamshedpur	955.36	2709.00	0	0	0	0	0
27.	RRL, Bhopal	359.19	1930.00	0	0	0	0	0
28.	CMRI, Dhanbad	699.79	4840.00	0	0	0	0	0
29.	IMT, Chandigarh	360.91	921.18	0	0	0	0	0
30.	CSIR HQ	37.38	0.00	0	0	0	0	0

* In number

Rupees in lakh

Sl. No.	Name of the laboratory	Modernisation expenditure (97-03) Rs. in lakh	Proposed ECF (Rs. in lakh)	Publication	Products	Patents	Licensing Premium (Rs. in lakh)	Technology transfer
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
31.	IHBT, Palampur	150.00	0.00	0	0	0	0	0
32.	CSMCRI, Bhavnagar	519.15	0.00	0	0	0	0	0
33.	CIMAP, Lucknow	558.88	0.00	0	0	0	0	0
34.	NISCOM, New Delhi	105.62	0.00	0	0	0	0	0
35.	CBT, New Delhi	430.00	0.00	0	0	0	0	0
36.	NPL, New Delhi	870.77	0.00	0	0	0	0	0
37.	RRL, Bhubaneswar	464.75	0.00	0	0	0	0	0
38.	NIO, Goa	919.18	0.00	0	0	0	0	0
39.	NISTADS, New Delhi	125.75	0.00	0	0	0	0	0
40.	INSDOC, New Delhi	188.59	0.00	0	0	0	0	0
Total		26237.96*	165626.17	967	38	569	4470.00	

NQ- Not quantifiable

- (1) Since the information regarding benefit as a result of modernisation was not available in the project proposals in cases of NIO, CSMCRI, CIMAP, CBT, NPL and RRL Bhubaneswar, figures in respect of col. 4 against the above laboratories are shown as zero.
- (2) The proposal of IHBT was not made available, figure in col. (4) is shown as zero
- (3) INSDOC and NISCOM merged and renamed as NISCAIR in October 2002. Therefore, figure in col. (4) is shown as zero
- (4) Targets were not fixed for NISTADS, New Delhi;

* the figures for NISCAIR were Rs. (-) 2.48 lakhs and not shown in statement.

ANNEXURE – C

(Referred to in para 3.6.1.1)

Statement showing projected and actual External Cash Flow (ECF)

(Rupees in lakh)

Sl. No	Name of the laboratory	Modernisation expenditure (97-03)	Total ECF proposed (with modernisation grants)	ECF (had modernisation grant not been released)	Incremental ECF from modernisation (Col. 4-5)	Total ECF actually generated during target period	Incremental benefit actually earned (Col. 7-5)	Period for which ECF targets were fixed	Percentage shortfall in generation of ECF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
1	CBRI, Roorkee	688.52	5666.81	4917.81	749.00	2828.24	(-) 2089.57	97-06	50
2	CCMB, Hyderabad	625.82	10743.00	5154.00	5589.00	6953.00	(+) 1799.00	98-06	35
3	CDRI, Lucknow	1646.23	6141.36	5255.10	886.26	4123.44	(-) 1131.66	98-04	33
4	CFTRI, Mysore	926.64	4650.00	3400.00	1250.00	2326.65	(-) 1073.35	98-02	50
5	CLRI, Chennai	828.49	5665.00	4908.00	757.00	3074.68	(-) 1833.32	97-02	46
6	CMERI, Durgapur	1200.14	7160.00	3420.00	3740.00	2111.80	(-) 1308.20	98-06	71
7	IICT, Hyderabad	1140.29	13190.00	11025.00	2165.00	10872.24	(-) 152.76	98-06	18
8	NAL, Bangalore	1804.99	20200.00	17000.00	3200.00	31875.49	(+) 14875.49	98-06	Nil
9	NCL, Pune	1208.12	19727.00	18500.00	1227.00	12156.32	(-) 6343.68	99-06	38
10	NEERI, Nagpur	492.81	19790.00	18200.00	1590.00	7251.87	(-) 10948.13	98-05	63
11	NIO, Goa	919.18	0.00	0.00	0.00	0.00	0.00	Does not arise	Not available
12	NISTADS, New Delhi	125.75	0.00	0.00	0.00	0.00	0.00	Does not arise	Not available
13	NML, Jamshedpur	955.36	2709.00	1660.00	1049.00	2130.48	(+) 470.48	97-02	21
14	RRL, Bhopal	359.19	1930.00	1430.00	500.00	2131.49	(+) 701.49	98-04	Nil
15	SERC, Chennai	666.39	1996.32	1436.32	560.00	1357.01	(-) 79.31	97-02	32
16	RRL, Thiruvananthapuram	686.96	4950.00	3310.00	1640.00	4903.29	(+) 1593.29	98-06	01

Report No.2 of 2007

Sl. No	Name of the laboratory	Modernisation expenditure (97-03)	Total ECF proposed (with modernisation grants)	ECF (had modernisation grant not been released)	Incremental ECF from modernisation (Col. 4-5)	Total ECF actually generated during target period	Incremental benefit actually earned (Col. 7-5)	Period for which ECF targets were fixed	Percentage shortfall in generation of ECF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
17	RRL, Jorhat	555.66	2395.00	1300.00	1095.00	1283.23	(-) 16.77	99-06	46
18	RRL, Jammu	540.19	665.00	520.00	145.00	503.71	(-) 16.29	99-02	24
19	RRL, Bhubaneswar	464.75	0.00	0.00	0.00	0.00	0.00	98-01	Not available
20	NPL, New Delhi	870.77	0.00	0.00	0.00	0.00	0.00	98-02	Not available
21	NISCOM, New Delhi	105.62	0.00	0.00	0.00	0.00	0.00	Does not arise	Not available
22	NGRI, Hyderabad	957.51	8050.00	6860.00	1190.00	6635.57	(-) 224.43	98-04	18
23	NBRI, Lucknow	482.00	2470.00	1365.00	1105.00	2586.03	(+) 1221.03	98-06	Nil
24	ITRC, Lucknow	553.78	1750.00	1100.00	650.00	895.60	(-) 204.40	98-02	49
25	INSDOC, New Delhi	188.59	0.00	0.00	0	0.00	0.00	Does not arise	Not available
26	IMT, Chandigarh	360.91	921.18	801.18	120.00	1760.29	(+) 959.11	97-02	Nil
27	IIP, Dehradun	683.56	1812.80	935.50	877.30	3360.15	(+) 2424.65	99-06	Nil
28	IICB, Kolkata	628.72	1385.00	700.00	685.00	901.60	(+) 201.60	98-02	35
29	IHBT, Palampur	150.00	0.00	0.00	0.00	0.00	0.00	Does not arise	Not available
30	CSMCRI, Bhavnagar	519.15	0.00	0.00	0.00	0.00	0.00	97-06	Does not arise
31	CSIR Headquarters	37.38	0.00	0.00	0	0.00	0.0	Does not arise	Not available
32	CSIO, Chandigarh	874.79	1512.00	412.00	1100.00	3863.39	(+) 3451.39	98-05	Nil
33	CRRI, New Delhi	486.75	1487.00	1267.00	220.00	1530.93	(+) 263.93	97-02	Nil
34	CMRI, Dhanbad	699.79	4840.00	3990.00	850.00	3045.77	(-) 944.23	98-02	37

Sl. No	Name of the laboratory	Modernisation expenditure (97-03)	Total ECF proposed (with modernisation grants)	ECF (had modernisation grant not been released)	Incremental ECF from modernisation (Col. 4-5)	Total ECF actually generated during target period	Incremental benefit actually earned (Col. 7-5)	Period for which ECF targets were fixed	Percentage shortfall in generation of ECF
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)
35	CIMAP, Lucknow	558.88	0.00	0.00	0.00	0.00	0.00	97-06	Not available
36	CGCRI, Kolkata	494.52	3930.00	2865.00	1065.00	2571.33	(-)293.67	98-04	35
37	CFRI, Dhanbad	406.79	2610.00	2180.00	430.00	1162.31	(-) 1017.69	99-03	55
38	CEERI, Pilani	421.50	4370.00	3175.00	1195.00	2237.75	(-) 937.25	98-05	49
39	CECRI, Karaikudi	493.94	2910.00	2430.00	480.00	1577.70	(-) 852.30	98-04	46
40	CBT, New Delhi	430.00	0.00	0.00	0.00	0.00	0.00	Does not arise	Not available
TOTAL		26237.96*	165626.47	129516.91	36109.56	128011.36	(-)1547.00		

- (1) Since the information regarding benefit as a result of modernisation was not available in the project proposals in cases of NIO, CMSCRI, CBT, CIMAP, NPL and RRL Bhubaneswar, figures in respect of col. 4 against the above laboratories are shown as zero.
- (2) The proposal of IHBT was not made available, figure in col. (4) is shown as zero
- (3) INSDOC and NISCOM merged and renamed as NISCAIR in October 2002. Therefore, figure in col. (4) is shown as zero
- (4) Targets were not fixed for NISTADS, New Delhi;

* *The figures for NISCAIR were Rs. (-) 2.48 lakh and not shown in statement.*

ANNEXURE-D

(Referred to in para 3.6.1.3)

Statement showing target and achievement of filing of patents for the period 2002-05 as fixed by PAB

Sl. No.	Name of the Laboratory	Target	Achievement	Shortfall
1.	CDRI	80 (FP)	81	Target achieved
2.	CIMAP	120 (FP)	142	Target achieved
3.	CMSCRI	80 (FP)	182	Target achieved
4.	RRL (JUM)	80 (FP)	130	Target achieved
5.	RRL (TRI)	40 (FP)	49	Target achieved
6.	CEERI	40 (FP) 10 (IP)	1(IP)	FP – 100 % IP – 88 %
7.	CFTRI	No target fixed	DNA	DNA
8.	IICT	No target fixed	DNA	DNA
9.	NCL	No target fixed	DNA	DNA
10.	NIO	No target fixed	DNA	DNA
11.	NISTADS	Does not arise	DNA	DNA
12.	CGCRI	No target fixed	DNA	DNA
13.	CMRI	No target fixed	DNA	DNA
14.	IICB	No target fixed	DNA	DNA
15.	NBRI	No target fixed	DNA	DNA
16.	RRL (JOR)	No target fixed	DNA	DNA
17.	CRRRI	60 (IP)	3	95%
18.	CBRI	40 (IP)	2	95 %
19.	NAL	80 (FP)	6	93 %
20.	NGRI	80 (FP)	7	91 %
21.	NEERI	60 (FP)	6	90 %
22.	SERC	20 (IP)	2	90 %
23.	CMERI	60 (FP)	8	87 %
24.	CCMB	80 (FP)	17	79 %
25.	IMT	80 (FP)	17	79 %
26.	RRL (BHU)	40 (FP)	10	75 %
27.	CECRI	80 (FP)	22	73%
28.	RRL (BHO)	40 (IP)	13	68 %
29.	IIP	120 (IP)	40	67 %

Sl. No.	Name of the Laboratory	Target	Achievement	Shortfall
30.	CFRI	40 (IP)	14	65%
31.	NPL	100 (FP)	40	60 %
32.	NML	80 (FP)	33	59 %
33.	CSIO	40 (IP)	23	43 %
34.	IHBT	100 (FP)	71	29%
35.	CLRI	80 (FP)	69	14 %
36.	ITRC	60 (FP)	0	100 %
Total		1788	988	

DNA-Does not arise

FP- Foreign Patent

IP- Indian Patent

NISCOM merged with NISCAIR in October 2002 and CBT renamed as IGIB in October 2002. These were not shown in the statement.

ANNEXURE-E

(Referred to in para 3.6.2.2)

Statement showing list of unrepaired equipment

Sl. No	Lab/ Institute	Equipment	Cost (Rs. in lakh)	Remarks
1.	NEERI, Nagpur	Super Critical Fluid Extraction System	27.38	The equipment was procured in May 2002 and put to use in October 2002. Scrutiny of logbook of the equipment revealed that it was not working since December 2004 due to an error in pressure development. Efforts were made to repair it in February 2006. The equipment still remained in-operational as of June 2006.
2.	NAL, Bangalore	Automatic Pressure Abrasive Cutoff Machine	10.86	The equipment was procured in December 1998 and installed in February 1999. A scrutiny of the equipment's logbook revealed that after September 2000, the equipment was not utilised due to the repeated defects. NAL indented spares for the equipment only in July 2006. However, till July 2006, indented material has not been procured.
3.	SERC, Chennai	Automatic Mercury Porosimeter	22.23	The equipment was procured in December 2000 and was installed in May 2001. The equipment did not function after April 2002 due to defects developing in it. The equipment remained inoperative from May 2002 to July 2005. But the consequent utilisation of the equipment from August 2005 could not be verified since no entry was made in the logbook.
4.	RRL, Bhopal	FTIR Spectrometer System	15.04	The equipment was imported in July 1999 and installed in June 2000. After installation, a series of defects developed in the equipment from October 2001 and it remained un-repaired till July 2006. Thus, the equipment remained idle for more than four years due to the failure of RRL to take effective action for making the equipment operational.
5.	CLRI, Chennai	Heel Seat and Side Cement Lasting Machine	13.18	The equipment was procured in September 2000. The service engineer of the Indian agent visited CLRI in January 2001 but could not install the equipment due to faulty spare parts supplied with the equipment. Neither CLRI asked the supplier to replace the defective parts nor the concerned Division of CLRI expressed any dissatisfaction due to non-performing of the equipment. On this being pointed out, CLRI stated in July 2006 that the defective spares were supplied by the firm and the demonstration of the equipment was done in August 2004. CLRI, however, failed to furnish any logbook or other records showing the utilisation of the equipment. Thus due to non-submission of records showing utilisation of the equipment, the claim of CLRI regarding replacement of the defective parts and its consequent utilisation could not be verified in Audit
Total			88.69	

ANNEXURE-F

(Referred to in para 3.6.2.4)

Statement showing equipment underutilised

Sl. No	Lab/ Institute	Equipment	Cost (Rs. in lakh)	Remarks
1.	RRL, Bhopal	Hydraulic Press	27.81	The equipment was procured in December 2002 for average utilisation of three hours per day. As power distribution line at site was not available, the installation of the equipment could be done in September 2003. The equipment was used for the first time in November 2005, as die, punches and fixtures were not ready. Even after making the equipment operational after three years of procurement it was used on 13 occasions upto March 2006.
2.	CBRI, Roorkee	Servo Hydraulic Actuator with 10 ton capacity	43.65	The equipment was procured in 1997-98, to provide cost effective modular growth and it was installed in July 1999. In September 2000 CBRI procured another Actuator having 50-ton capacity costing Rs. 21 lakh which was installed in January 2002. Scrutiny of logbook revealed that during 1999-06 the equipments were utilised only on 26 occasions.
		Servo Hydraulic Actuator with 50 ton capacity	21.00	
3.	NML, Jamshedpur	Parr Mini Autoclave (PMA)	14.75	NML procured PMA and MP in November 2001 and January 2002. These were installed in January 2002 and May 2002 respectively. Upto July 2006, while PMA was used on 30 occasions, MP was used only on seven occasions.
		Mercury Porositymeter (MP)	15.80	
4.	IICT, Hyderabad	GC-Mass Spectrometer	26.93	IICT procured the equipment in September 2000 for operation in electrical and chemical ionisation methods. In electrical ionisation method, the equipment was commissioned in December 2000, but the chemical ionisation method could not be pursued due to defects in heater assembly source. The defects were rectified in September 2001 but no entry in the logbook was made upto June 2004. IICT stated in August 2006 that it was utilising the equipment since September 2001. The reply of IICT, however, was not supported by the entries in the logbook.

Sl. No	Lab/ Institute	Equipment	Cost (Rs. in lakh)	Remarks
5.	CDRI, Lucknow	Scanning Electron Microscope (SEM)	72.25	<p>CDRI procured SEM in 1999-2000 and Confocal Microscope (CM) in 2000-01 at a total cost of Rs. 72.25 lakh and Rs.112.68 lakh respectively to conduct experiments eight hours per day per equipment. The equipment were installed in June 2001 and March 2002 respectively. While SEM was used for 2400 hours against the available 9600 hours (25 percent) during June 2002 to June 2006, CM was used for 1500 hours (18 percent) against the available 8320 hours during March 2002 to June 2006.</p> <p>CDRI stated in October 2006 that the time required for preparation of samples was not considered by Audit. The reply of CDRI needed be viewed in light of the fact that the aspect of requirement of time for preparation of samples was not considered at the time of preparation of the proposals.</p>
		Confocal Microscope (CM)	112.68	
6.	CDRI, Lucknow	Parallax HPLC	90.93	<p>Parallax HPLC costing Rs. 90.93 lakh was installed in November 2001 for screening of samples. It screened 12,774 samples against the target of 4,66,000 (three percent) during November 2001 to June 2006. CDRI stated in October 2006 that the equipment was bought to purify the libraries generated from the combichem synthesisers and since the combichem concept had been discontinued, it did not utilise the equipment optimally. The reply of CDRI need to be viewed on light of the fact that it did not ascertain the need of the industries before procurement of the equipment.</p>
7.	CMERI, Durgapur	Injection Moulding machine	19.09	<p>The equipment was installed in February 2000. After installation it could not be used for three years upto June 2005. While explaining the reasons for idling of the equipment, CMERI stated in June 2006 that the equipment was used regularly from July 2005 under a CSIR funded project. The reply of CMERI needs to be viewed in the light of the fact that the equipment was procured for immediate use but its non-usage indicates that no plan initially existed.</p>
Total			444.89	

ANNEXURE- G

(Referred to in para 3.6.2.5)

Statement showing delay in installation of the equipment

Sr. No	Lab/ Institute	Equipment	Cost (Rs. in lakh)	Delay in installation (in months)
1.	NAL	Contour Measuring Machine	37.47	45
2.	IICT	Accessories for D-5000 X-ray Defractometer System	11.56	37
3.	CBRI	Direct Measurement Analyzer	8.45	35
4.	CLRI	Jeol Supercon Spectrometer (NMR)	129.48	34
5.	CBRI	Cyclic Tri-Axial Control System	36.00	34
6.	IICT	Speed Vac System	5.27	32
7.	RRL	Shimadzu Servo Pulser UTM Model EHF-EG-40L	36.00	29
8.	CBRI	UV VIS Spectrophotometer	14.00	26
9.	CLRI	Shimadzu UTM	26.60	24
10.	NIO	Digital Side Scan Sonar, Echo-sounder, Portable CTD System, Digital Global Positioning System	98.50	24
11.	IICT	Preparative HPLC	7.90	23
12.	NML	NETZSCH Laboratory Agitator Mill	24.50	23
13.	CFTRI	Controlled Atmosphere Storage Chamber	59.40	21
14.	CDRI	Circular Dichrograph with accessories	35.62	20
15.	CMERI	Carbon Sulphur Analyser	15.51	20
16.	CLRI	Sammying Machine	19.24	20
17.	RRL	Ultimate Analyzer	25.90	19
18.	IICT	Model 900 Max Portable Sampler	3.51	19
19.	NIO	Interactive Interpretation Seismic Processing System	39.30	17
20.	NML	Sorvall Benchtop Superspeed Centrifuge Model ST-21	10.50	15
21.	NEERI	Flow Cytometer	115.91	13
22.	CMERI	Vertical Machining Centre CVP-720	80.67	13
Total			841.29	

ANNEXURE-H

(Referred to in para 3.7)

Statement showing list of instruments for which log books/log files were not maintained

(Rupees in lakh)

Sl. No.	Name of the laboratory	Name of the instrument	Cost of the instrument
1.	CBRI	Impact Echo System	11.57
2.	CBRI	Cyclic Triaxial Control System	50.47
3.	CBRI	Profometer Corrosive Analyser Instrument	11.23
4.	CBRI	Foundation Pile Diagnostic System	12.80
5.	CBRI	Digital Image Processing system	25.00
6.	CDRI	Particle size analyser	20.54
7.	CDRI	Molecular Modeling Facility	77.44
8.	CDRI	Scanning Electron Microscope	72.25
9.	CDRI	HPLC System HP 1000 series	14.00
10.	CMERI	Ultrasonic Flow Detector	6.08
11.	CLRI	UV Lighting Machine	5.28
12.	CLRI	Heel Lasting Machine	13.25
13.	CLRI	Pullover and Toe Lasting Machine	14.45
14.	CLRI	Rotating Anode Generator	56.34
15.	CLRI	Rheometer	26.35
16.	CLRI	Homeogeniser	26.85
17.	IICT	Advanced Gel Permeation Chromatograph Syetem	7.50
18.	IICT	Culture Vessel with Temperature PH control	8.00
19.	CMERI	Bedtype Vertical Milling Machine	15.22
Total			474.62

ANNEXURE-I

(Referred to in para 3.8)

Statement showing inadequate monitoring

Sl. No.	Laboratory/ Institute	Prescribed Frequency		Meetings held during 1998-99 to 2001-02		Shortfall		Reasons for shortfall
		Steering Committee (SC)	Monitoring Committee (MC)	SC	MC	SC	MC	
1.	RRL, Bhopal	08	16	02	06	06	10	NA
2.	NEERI, Nagpur	04	12	02	05	02	07	NA
3.	NIO, Goa	48	-	01	-	47	-	NA
4.	NAL, Bangalore	16	48	-	-	16	48	NA
5.	CFTRI, Mysore	04	08	-	01	04	07	NA
6.	CDRI, Lucknow	08	08	02	02	06	06	NA
7.	CMERI, Durgapur	Not formed	16	DNA	03	DNA	13	NA

NA- Not available

DNA-Does not arise