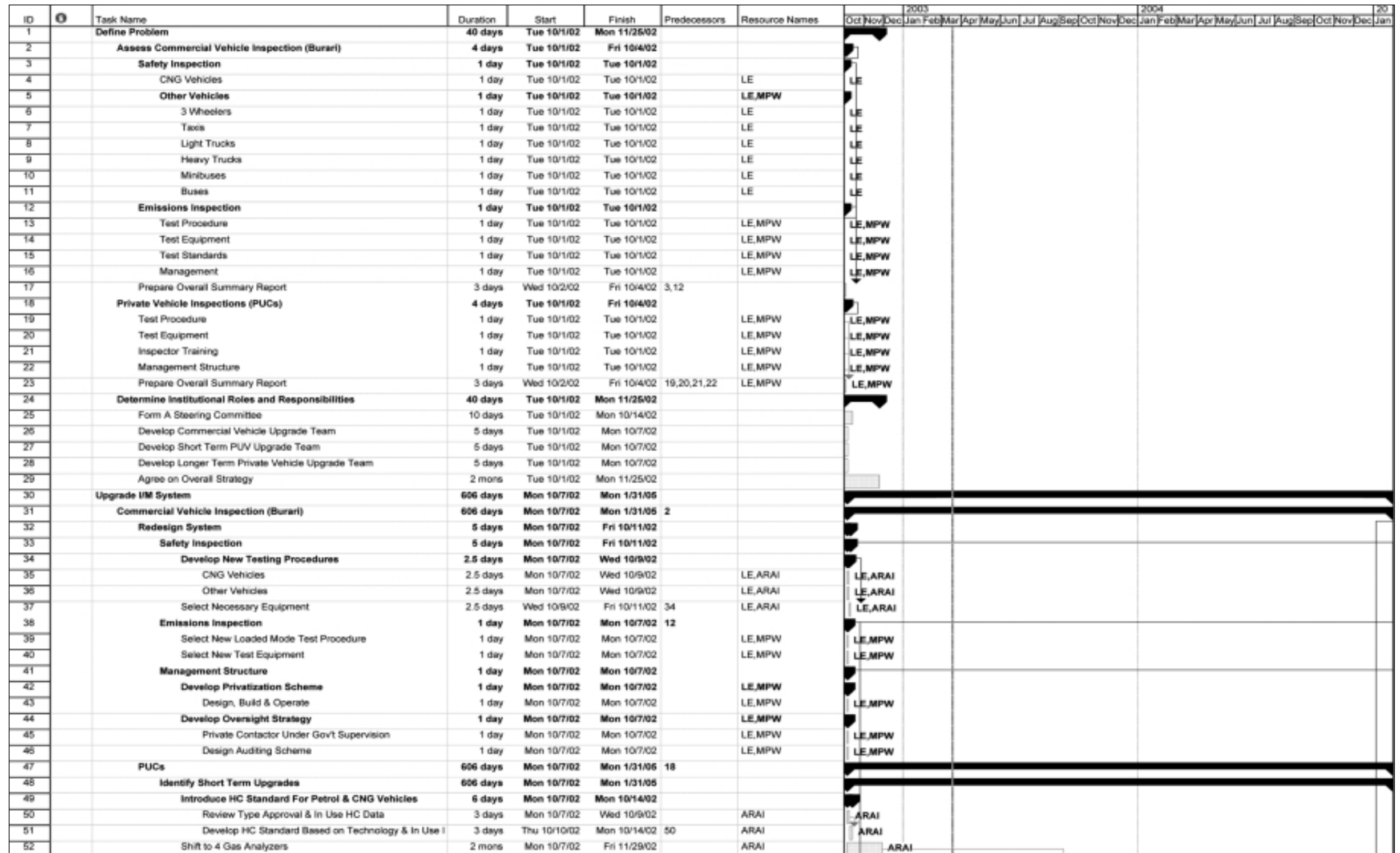


17. GANTT CHART: I/M PROJECT PLAN AND SCHEDULE



Project: CSE IM Project
Date: Tue 3/18/03

- Task: [Solid Grey Bar]
- Milestone: [Diamond]
- Rolled Up Split: [Dashed Line]
- External Tasks: [Grey Bar with Arrow]
- Deadline: [Arrow]
- Split: [Dotted Line]
- Summary: [Thick Solid Bar]
- Rolled Up Milestone: [Diamond]
- Project Summary: [Thick Solid Bar]
- Progress: [Patterned Bar]
- Rolled Up Task: [Patterned Bar]
- Rolled Up Progress: [Patterned Bar]
- External Milestone: [Diamond]

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	2003												2004											
							Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
53	2 Stage Idle (With Lambda For Catalyst Vehicles) Test Proc	2 mons	Mon 10/7/02	Fri 11/29/02		ARAI			ARAI																					
54	Develop New Test Procedures	5 days	Mon 10/7/02	Fri 10/11/02		ARAI		ARAI																						
55	Computerize All Test Data	12 mons	Mon 10/7/02	Fri 9/5/03		ARAI																								
56	Institute Data Management System	6 mons	Mon 10/7/02	Fri 3/21/03		CPCB																								
57	License Photographs	2 mons	Mon 10/7/02	Fri 11/29/02		ARAI		ARAI																						
58	Shift to Independent Management of all PUCs	6 mons	Mon 10/7/02	Fri 3/21/03		LE,MPW																								
59	Write Up Plan	1 day	Mon 9/8/03	Mon 9/8/03	52,53,55,57,58	LE,MPW																								
60	Institute Plan	365 days	Tue 9/9/03	Mon 1/31/05	59																									
61	Purchase Equipment	60 days	Tue 9/9/03	Mon 12/1/03																										
62	Arrange New Management Structure	60 days	Tue 9/9/03	Mon 12/1/03																										
63	Train Personnel	30 days	Tue 12/2/03	Mon 1/12/04	61,62																									
64	Institute New Test Protocol, Only Trained Personnel C	1 day	Tue 1/13/04	Tue 1/13/04	63																									
65	Start Testing	1 day	Wed 1/14/04	Wed 1/14/04	64																									
66	Institute Auditing & Oversight Of New Program	365 days	Tue 9/9/03	Mon 1/31/05																										
67	Private Vehicles Longer Term	158 days	Mon 10/7/02	Wed 5/14/03																										
68	Catalyst Equipped Vehicles	153 days	Mon 10/7/02	Wed 5/7/03																										
69	Design Loaded Mode Test Procedure	1 day	Mon 10/7/02	Mon 10/7/02		LE,MPW		LE,MPW																						
70	Determine Necessary Equipment	1 day	Mon 10/7/02	Mon 10/7/02		LE,MPW		LE,MPW																						
71	Develop Plan For Centralized Testing Scheme	1 day	Mon 10/7/02	Mon 10/7/02		LE,MPW		LE,MPW																						
72	Develop Tendering Document	30 days	Tue 10/8/02	Mon 11/18/02	69,70,71	LE,MPW		LE,MPW																						
73	Submit For Bids	90 days	Tue 11/19/02	Mon 3/24/03	72																									
74	Review Bids	30 days	Tue 3/25/03	Mon 5/5/03	73																									
75	Select Best Proposal	1 day	Tue 5/6/03	Tue 5/6/03	74																									
76	Award Contract	1 day	Wed 5/7/03	Wed 5/7/03	75																									
77	Implement Contract	6 mons	Mon 10/7/02	Fri 3/21/03		Contractor																								
78	Institute Testing	1 day	Mon 10/7/02	Mon 10/7/02																										
79	Other High Priority Private Vehicles	5 days	Thu 5/8/03	Wed 5/14/03	68																									
80	2 Wheelers	5 days	Thu 5/8/03	Wed 5/14/03																										
81	Determine Appropriate Test Procedures	5 days	Thu 5/8/03	Wed 5/14/03		LE,MPW																								
82	Select Equipment	2 days	Thu 5/8/03	Fri 5/9/03		LE,MPW																								
83	Develop Strategy For Phasing Into Centralized Sc	1 day	Thu 5/8/03	Thu 5/8/03		LE,MPW																								
84	Other Vehicle Categories	5 days	Thu 5/8/03	Wed 5/14/03																										
85	Determine Criteria For Phasing Into Centralized S	5 days	Thu 5/8/03	Wed 5/14/03		LE,MPW																								
86	Determine Appropriate Tests & Equipment	3 days	Thu 5/8/03	Mon 5/12/03		LE,MPW																								
87	Assess the Need For Safety (Roadworthiness) Inspections	30 days	Mon 10/7/02	Fri 11/15/02		Transport		Transport																						
88	If Yes, Develop Procedures, Equipment	90 days	Mon 10/7/02	Fri 2/7/03		Transport		Transport																						
89	Develop Tendering Document to Upgrade Burari Center	127 days	Tue 2/1/05	Wed 7/27/05	31																									
90	Include Safety Inspection	5 days	Tue 2/1/05	Mon 2/7/05	33																									
91	Include Emissions Inspection	5 days	Tue 2/1/05	Mon 2/7/05	38																									
92	Include Management Structure	5 days	Tue 2/1/05	Mon 2/7/05	41																									
93	Submit For Bids	90 days	Tue 2/8/05	Mon 6/13/05	90,91,92																									
94	Review Bids	30 days	Tue 6/14/05	Mon 7/25/05	93																									
95	Select Best Proposal	1 day	Tue 7/26/05	Tue 7/26/05	94																									
96	Award Contract	1 day	Wed 7/27/05	Wed 7/27/05	95																									
97	Implement Contract	500 days	Thu 7/28/05	Wed 6/27/07	99																									
98	Rebuild Facility	6 mons	Thu 7/28/05	Wed 1/11/06		Contractor																								
99	Purchase & Install Equipment	6 mons	Thu 7/28/05	Wed 1/11/06	98FF	Contractor																								
100	Train Personnel	1 mon	Thu 12/15/05	Wed 1/11/06	99FF	Contractor																								
101	System Demonstration	15 days	Thu 1/12/06	Wed 2/1/06	100	Contractor,Transport																								
102	Begin Testing	365 days	Thu 2/2/06	Wed 6/27/07	101	Contractor																								
103	Develop Tendering Document For New Truck Center (DTC)	131 days	Tue 10/8/02	Tue 4/8/03																										
104	Include Safety Inspection	5 days	Mon 10/14/02	Fri 10/18/02	33																									

Project: CSE IM Project
Date: Tue 3/16/03

Task		Milestone		Rolled Up Split		External Tasks		Deadline	
Split		Summary		Rolled Up Milestone		Project Summary			
Progress		Rolled Up Task		Rolled Up Progress		External Milestone			

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	2003												2004											
							Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
105	Include Emissions Inspection	5 days	Tue 10/8/02	Mon 10/14/02	38																									
106	Include Management Structure	5 days	Tue 10/8/02	Mon 10/14/02	41																									
107	Submit For Bids	90 days	Mon 10/21/02	Fri 2/21/03	104,105,106																									
108	Review Bids	30 days	Mon 2/24/03	Fri 4/4/03	107																									
109	Select Best Proposal	1 day	Mon 4/7/03	Mon 4/7/03	108																									
110	Award Contract	1 day	Tue 4/8/03	Tue 4/8/03	109																									
111	Implement Contract	365 days	Wed 4/9/03	Tue 8/31/04	103																									
112	Identify & Purchase Land	60 days	Wed 4/9/03	Tue 7/1/03		Contractor																								
113	Build Facility	180 days	Wed 7/2/03	Tue 3/9/04	112	Contractor																								
114	Purchase & Install Equipment	180 days	Wed 7/2/03	Tue 3/9/04	113FF	Contractor																								
115	Train Personnel	1 mon	Wed 2/11/04	Tue 3/9/04	114FF	Contractor																								
116	System Demonstration	15 days	Wed 4/9/03	Tue 4/29/03		Contractor,Transport																								
117	Begin Testing	365 days	Wed 4/9/03	Tue 8/31/04		Contractor																								
118	Develop Tendering Document for New Bus Center (Bawana)	131 days	Tue 10/8/02	Tue 4/8/03																										
119	Include Safety Inspection	5 days	Mon 10/14/02	Fri 10/18/02	33																									
120	Include Emissions Inspection	5 days	Tue 10/8/02	Mon 10/14/02	38																									
121	Include Management Structure	5 days	Tue 10/8/02	Mon 10/14/02	41																									
122	Submit For Bids	90 days	Mon 10/21/02	Fri 2/21/03	119,120,121																									
123	Review Bids	30 days	Mon 2/24/03	Fri 4/4/03	122																									
124	Select Best Proposal	1 day	Mon 4/7/03	Mon 4/7/03	123																									
125	Award Contract	1 day	Tue 4/8/03	Tue 4/8/03	124																									
126	Implement Contract	365 days	Tue 10/1/02	Mon 2/23/04																										
127	Identify & Purchase Land	60 days	Tue 10/1/02	Mon 12/23/02		Contractor																								
128	Build Facility	180 days	Tue 10/1/02	Mon 6/9/03	127FF	Contractor																								
129	Purchase & Install Equipment	180 days	Tue 10/1/02	Mon 6/9/03	128FF	Contractor																								
130	Train Personnel	30 days	Tue 4/29/03	Mon 6/9/03	129FF	Contractor																								
131	System Demonstration	15 days	Tue 10/1/02	Mon 10/21/02		Contractor,Transport																								
132	Begin Testing	365 days	Tue 10/1/02	Mon 2/23/04		Contractor																								
133	Develop Tendering Document for New Private Vehicle Centers	90 days	Tue 10/1/02	Mon 2/3/03																										
134	Include Emissions Inspection	5 days	Tue 10/8/02	Mon 10/14/02	38																									
135	Include Management Structure	5 days	Tue 10/8/02	Mon 10/14/02	41																									
136	Submit For Bids	90 days	Tue 10/1/02	Mon 2/3/03																										
137	Review Bids	30 days	Tue 10/1/02	Mon 11/11/02																										
138	Select Best Proposal	1 day	Tue 10/1/02	Tue 10/1/02																										
139	Award Contract	1 day	Tue 10/1/02	Tue 10/1/02																										
140	Implement Contract	365 days	Tue 10/1/02	Mon 2/23/04																										
141	Identify & Purchase Land	60 days	Tue 10/1/02	Mon 12/23/02		Contractor																								
142	Build Facility	180 days	Tue 10/1/02	Mon 6/9/03		Contractor																								
143	Purchase & Install Equipment	180 days	Tue 10/1/02	Mon 6/9/03	142FF	Contractor																								
144	System Demonstration	15 days	Tue 10/1/02	Mon 10/21/02		Contractor,Transport																								
145	Train Personnel	30 days	Tue 4/29/03	Mon 6/9/03	143FF	Contractor																								
146	Begin Testing	365 days	Tue 10/1/02	Mon 2/23/04																										
147	Enforcement	702 days	Tue 10/1/02	Wed 6/8/05																										
148	Consult With Appropriate Ministries	10 days	Tue 10/1/02	Mon 10/14/02		CSE																								
149	Issue Order Requiring Valid Certificate as Condition of Insurance Renewal	5 days	Tue 10/1/02	Mon 10/7/02		Ministry																								
150	Carry Out Independent Unaccounted Audits of all Test Facilities	365 days	Thu 1/15/04	Wed 6/8/05	65																									
151	Shift All Testing From PUCs To Centralized Facilities	520 days	Tue 10/1/02	Mon 9/27/04																										
152	Determine Overall Phase In Schedule	1 day	Tue 10/1/02	Tue 10/1/02																										
153	Determine Equipment, Facilities Needed	1 day	Wed 10/2/02	Wed 10/2/02	152																									
154	Develop Tendering Document	30 days	Thu 10/3/02	Wed 11/13/02	153																									
155	Submit For Bids	90 days	Thu 11/14/02	Wed 3/19/03	154																									
156	Select Best Proposal(s)	30 days	Thu 3/20/03	Wed 4/30/03	155																									

Project: CSE IM Project
Date: Tue 3/18/03

Task		Milestone		Rolled Up Split		External Tasks		Deadline	
Split		Summary		Rolled Up Milestone		Project Summary			
Progress		Rolled Up Task		Rolled Up Progress		External Milestone			

CSE REPORT ON VEHICLE INSPECTION & MAINTENANCE

ID	Task Name	Duration	Start	Finish	Predecessors	Resource Names	2003												2004											
							Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep
157	Award Contract(s)	1 day	Thu 5/1/03	Thu 5/1/03	156																									
158	Initiate Phase in	1 day	Fri 5/2/03	Fri 5/2/03	157																									
159	Complete Phase in	1 day	Mon 9/27/04	Mon 9/27/04	158FS+365 day																									
160	Introduce Remote Sensing System	211 days	Tue 10/1/02	Tue 7/22/03																										
161	Design Protocols For Trends Analysis	30 days	Tue 10/1/02	Mon 11/11/02																										
162	Design Protocols For "Dirty Screening" Program	30 days	Tue 10/1/02	Mon 11/11/02																										
163	Design Protocols For Fleet Testing Program	30 days	Tue 10/1/02	Mon 11/11/02																										
164	Develop Remote Testing Equipment Specification	30 days	Tue 11/12/02	Mon 12/23/02	161,162,163																									
165	Determine Best Speed & Acceleration Sensors	30 days	Tue 11/12/02	Mon 12/23/02																										
166	Determine PM Capability	30 days	Tue 11/12/02	Mon 12/23/02																										
167	Review CO, HC & NOx Capability With Different Fuels	30 days	Tue 11/12/02	Mon 12/23/02																										
168	Develop Tendering Document	30 days	Tue 12/24/02	Mon 2/3/03	164																									
169	Submit For Bids	90 days	Tue 2/4/03	Mon 6/9/03	168																									
170	Select Best Proposal	30 days	Tue 6/10/03	Mon 7/21/03	169																									
171	Award Contract	1 day	Tue 7/22/03	Tue 7/22/03	170																									
172	Initiate Remote Sensing Program	1 day	Wed 10/15/03	Wed 10/15/03	171FS+60 days																									
173	Entire Program Upgraded	1 day	Thu 6/28/07	Thu 6/28/07	172,158,146,13																									
174	Arrange Study Tour to Europe	40 days	Tue 10/1/02	Mon 11/25/02																										
175	Determine Appropriate Participants	10 days	Tue 10/1/02	Mon 10/14/02																										
176	Arrange Itinerary	10 days	Tue 10/1/02	Mon 10/14/02																										
177	Carry Out Tour	30 days	Tue 10/15/02	Mon 11/25/02	175,176																									



Project: CSE IM Project
 Date: Tue 3/18/03

Task Milestone Rolled Up Split External Tasks Deadline
 Split Summary Rolled Up Milestone Project Summary
 Progress Rolled Up Task Rolled Up Progress External Milestone



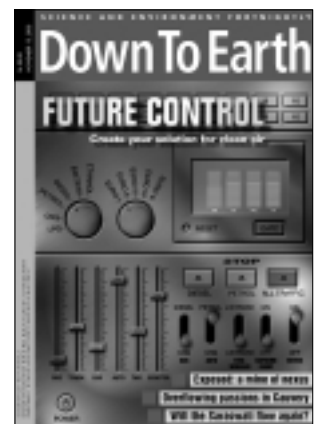
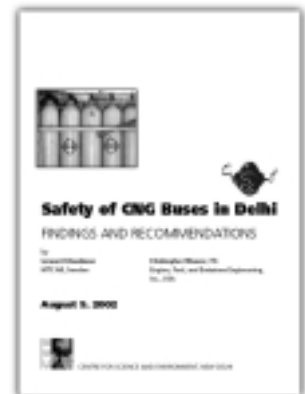
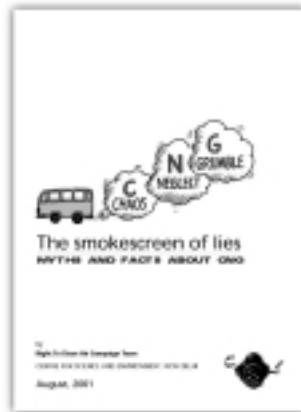
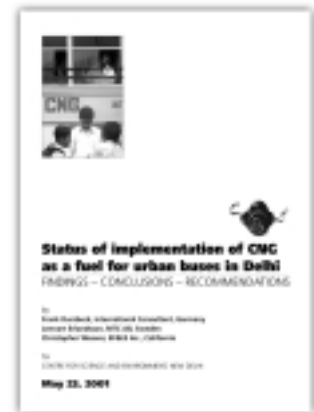
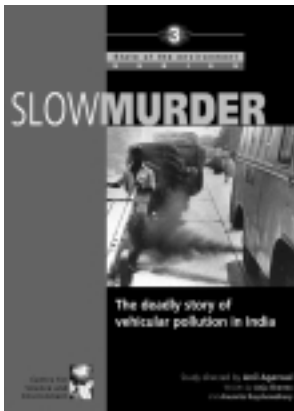
The Centre for Science and Environment is a public interest research and advocacy organisation, which promotes environmentally-sound and equitable development strategies. The Centre's work over the past 20 years has led it to believe and argue, both nationally and internationally, that participation, equity and community-based natural resource management systems alone will lead the nations of the world towards a durable peace and development.

As a public interest organisation, the Centre supports and organises information flow in a way that the better organised sections of the world get to hear the problems and perspectives of the less organised. Environmental issues are seen in an anthropocentric perspective that seeks to bring about changes in the behaviour of human societies through appropriate governance systems, human-nature interactions, and the use of science and technology.

Though the public awareness programmes of the Centre have been its key strength and focus of work, it has endeavoured to move into associated areas of work like policy research and advocacy in the past years. Learning from the people and from the innovations of the committed has helped the Centre to spread the message regarding environment without its normal association with doom and gloom. Rather, the effort of the Centre is to constantly search for people-based solutions and create a climate of hope.

The Centre has always been, and will continue to be, editorially independent of interest groups, governments, political parties, international agencies and funding sources. CSE never accepts funding to push a donor's viewpoint. All its outputs are available for public dissemination.

Right to Clean Air Campaign Publications



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