

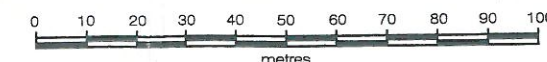


BUILDING NUMBER REFERENCE

- | | |
|-----------------------------------|-----------------------------------|
| 1. L.P.G Storage Yard | 19. Septic Tank |
| 2. Transformer Yard | 20. Sewage Treatment Tank |
| 3. Oxygen Cylinder | 21. Canteen Water Collection Tank |
| 4. Water Tank | 22. C.W.C Tank |
| 5. Water Tank | 23. Latrine Unit |
| 6. Service Room | 24. Bakery |
| 7. Sump | 25. Old Office |
| 8. Water Cooling Tower | 26. Sump |
| 9. Distillation Room | 27. Security Room |
| 10. Main Factory | 28. Bike Stand |
| 10A. Main Administration Building | 29. Garden Rest Room |
| 11. Aeration Tank | 30. Security House |
| 12. Tank | 31. Well |
| 13. Rain Water Collection Sump | 32. Ground Level Tank |
| 14. Cooling Towers 2 Nos | 33. Staff Quarters 1,2&3 |
| 15. Crusher Plant | 34. Staff Tea Point |
| 16. Sludge Yard | 35. Well |
| 17. Cooling Towers 2 Nos | 36. Well |
| 18. Latrine | 37. Water Tank |

LEGEND

- Soil/Sediment Sample Locations
- Site Boundary
- Building Numbers
- Building Locations
- Main Stream
- Rock Outcrops
- Water Sample Locations
- Boundaries of Areas to be Remediated



FOREST LAND

DATE : 12/09/07 DRN : AUS CHK : RC APPD : MM REV 0

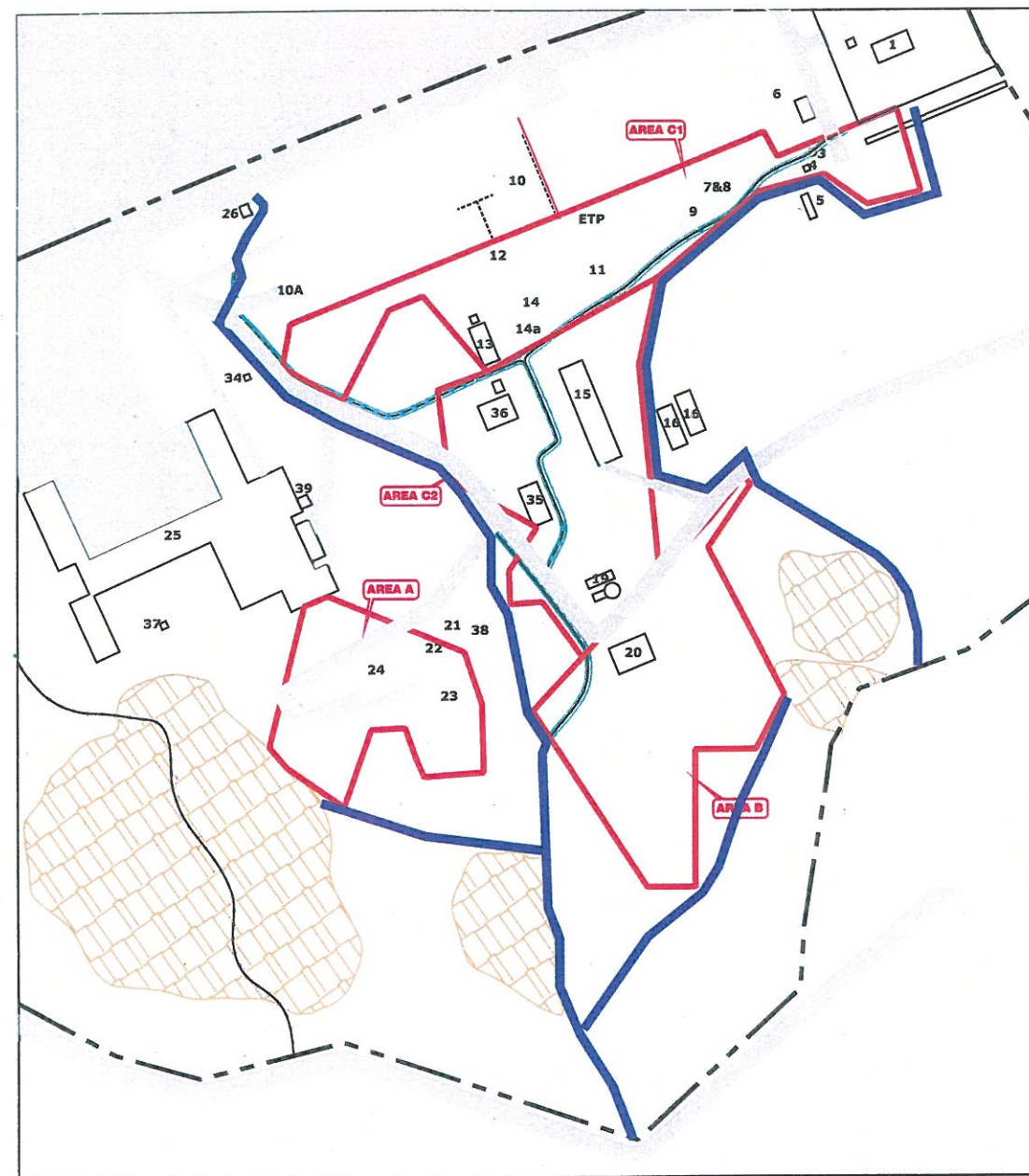
PROJECT : SOIL REMEDIATION, KODAIKANAL

CLIENT : HINDUSTAN UNILEVER LIMITED

TITLE : FIGURE 3, SITE LAYOUT MAP

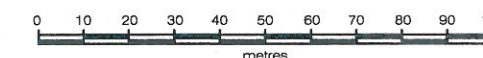
ERM JOB NO. : I6501

DRG. NO. : ERM/I6501/IN/03



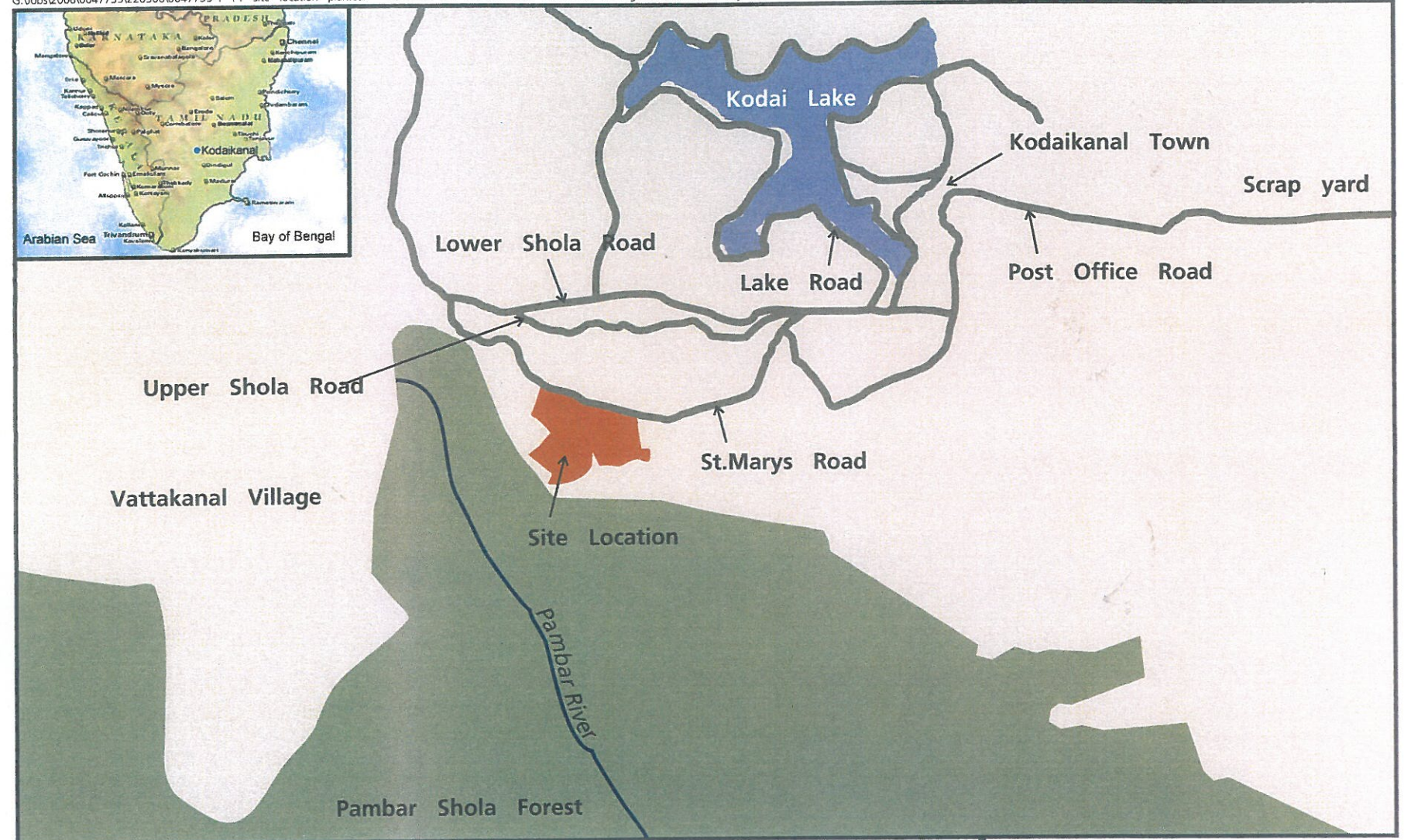
LEGEND

	Excavation Boundary
	Site Boundary
	Building
	Existing Creek
	Rock Outcrop
	New Drain



PROJECT : SOIL REMEDIATION, KODAIKANAL	CLIENT : HINDUSTAN UNILEVER LIMITED	TITLE : NEW DRAINAGE SYSTEM	DATE 17/08/07	DRN : HSR	CHK : RC	APPD : MM	REV 0
			ERM JOB NO. : I6501		DRG. NO. : ERM/I6501/IN/08		

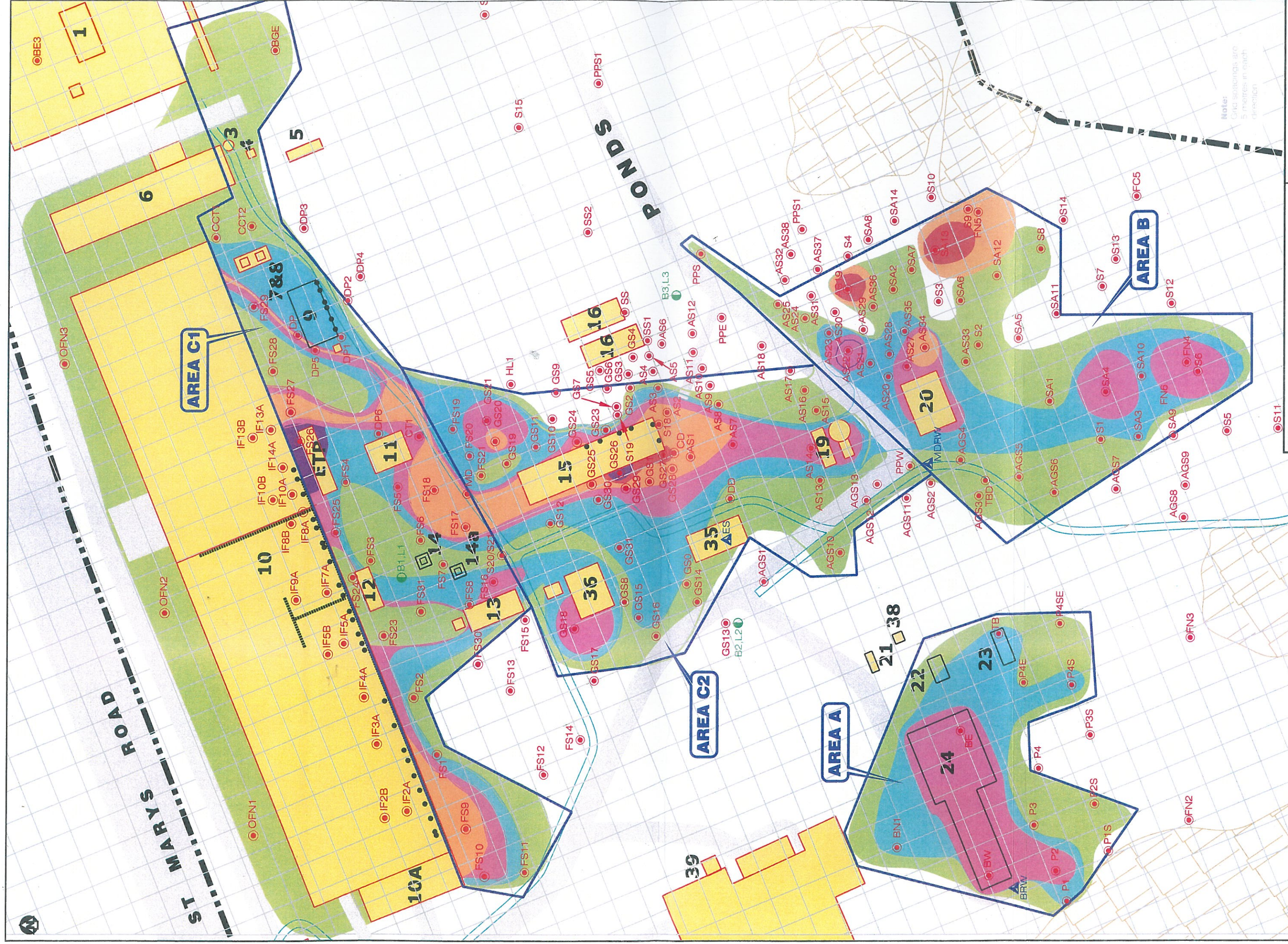
FIGURE 8

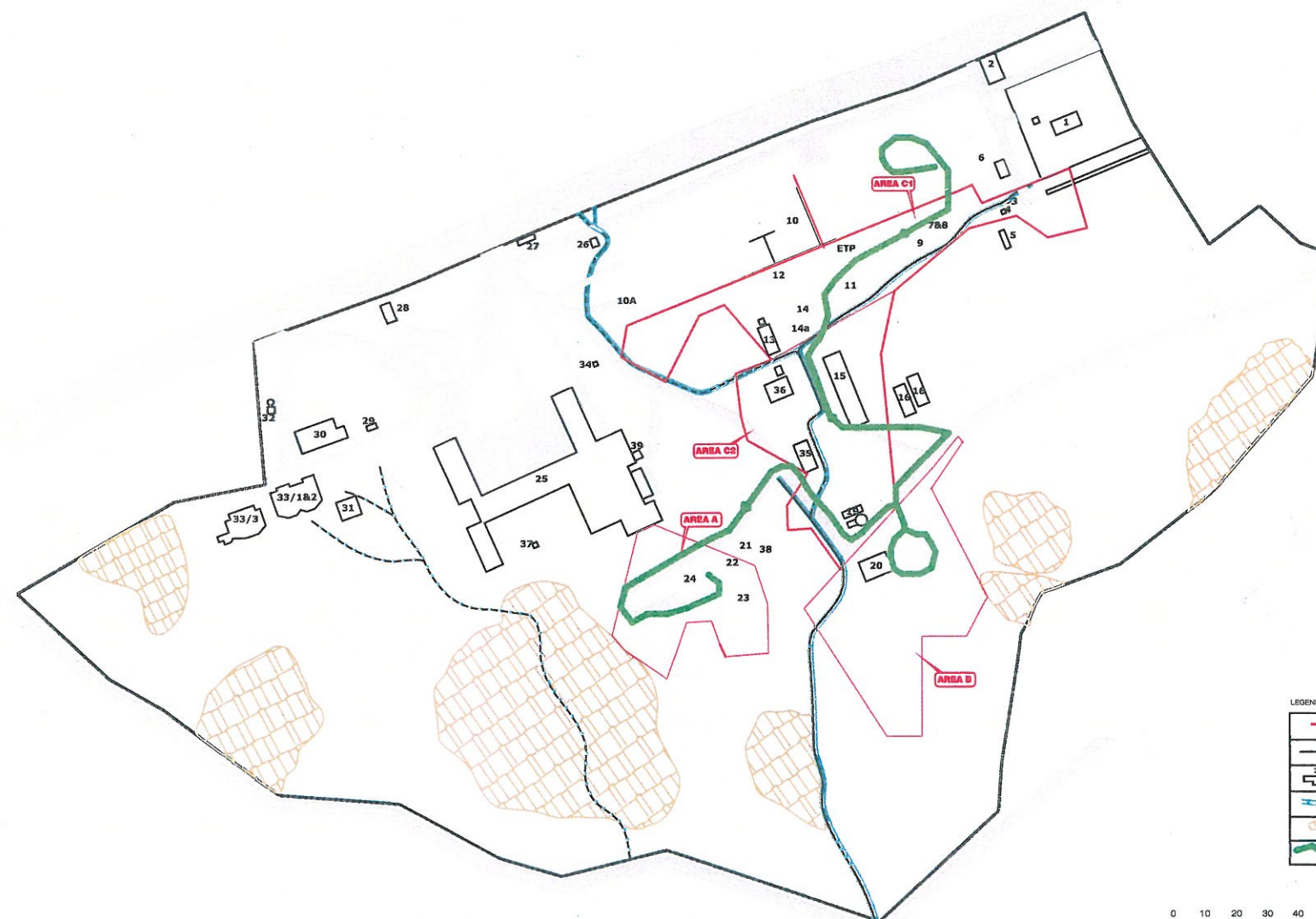


0 200m
Approximate only

Annex A Figure **Site Location Plan**

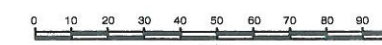
Soil Vapour Investigation Project
Kodaikanal, India





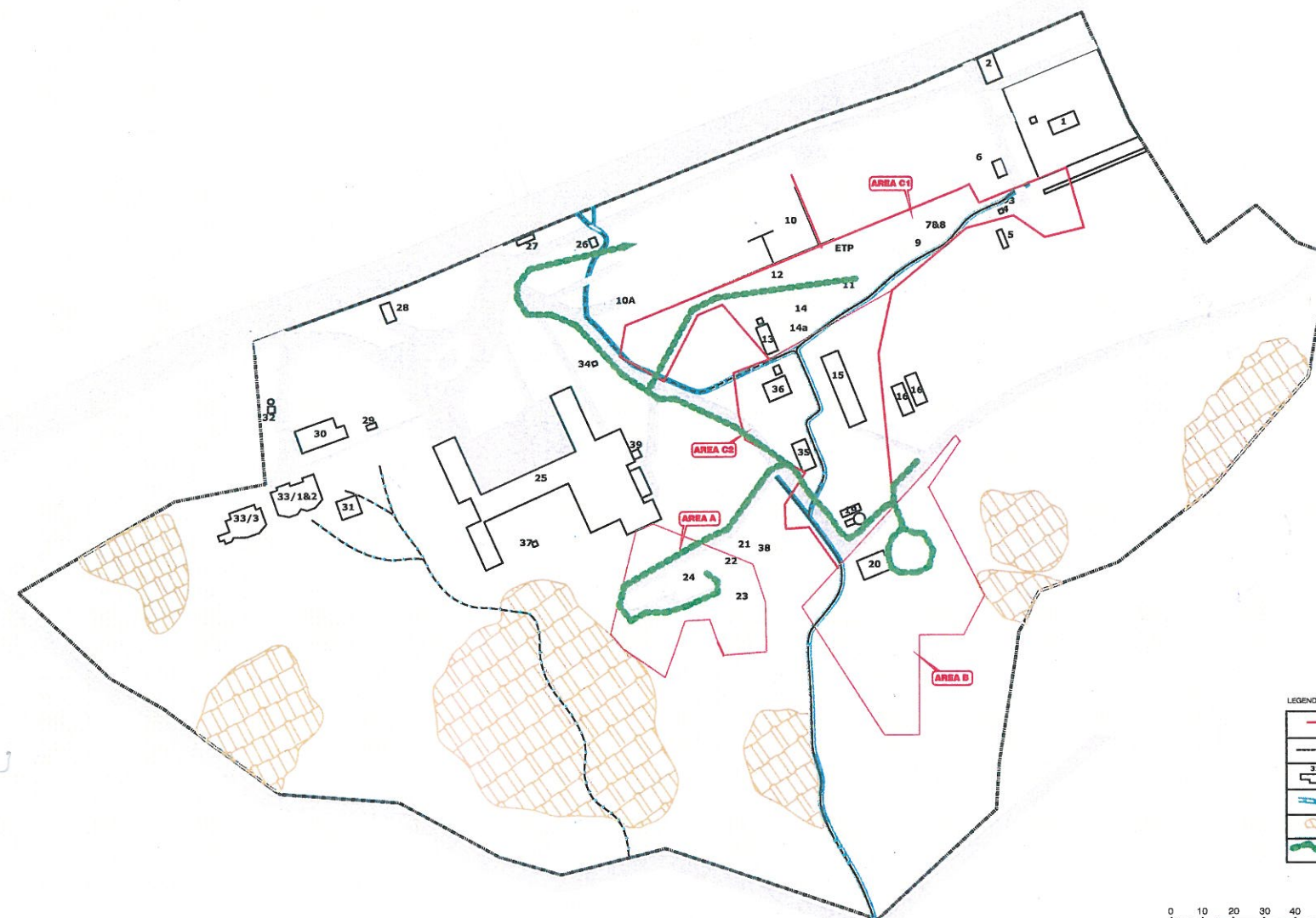
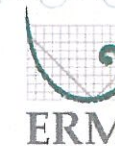
LEGEND

	Excavation Boundary
	Site Boundary
	Building
	Creek
	Rock Outcrop
	New Pathways



FOREST LAND

PROJECT : SOIL REMEDIATION, KODAIKANAL	CLIENT : HINDUSTAN UNILEVER LIMITED	DATE 17/08/07	DRN : HSR	CHK : RC	APPD : MM	REV 0
FIGURE 11	TITLE : MATERIAL FLOW FROM MAIN PLANT AREA TO EXCAVATED AREA	ERM JOB NO. : I6501	DRG. NO. : ERM/I6501/IN/11			



LEGEND

—	Excavation Boundary
- - - - -	Site Boundary
□	Building
—	Creek
—	Rock Outcrop
—	New Pathways



PROJECT : SOIL REMEDIATION, KODAIKANAL

CLIENT : HINDUSTAN UNILEVER LIMITED

DATE 17/08/07 DRN : HSR CHK : RC APPD : MM REV 0

ERM JOB NO. : I6501

DRG. NO. : ERM/I6501/IN/10

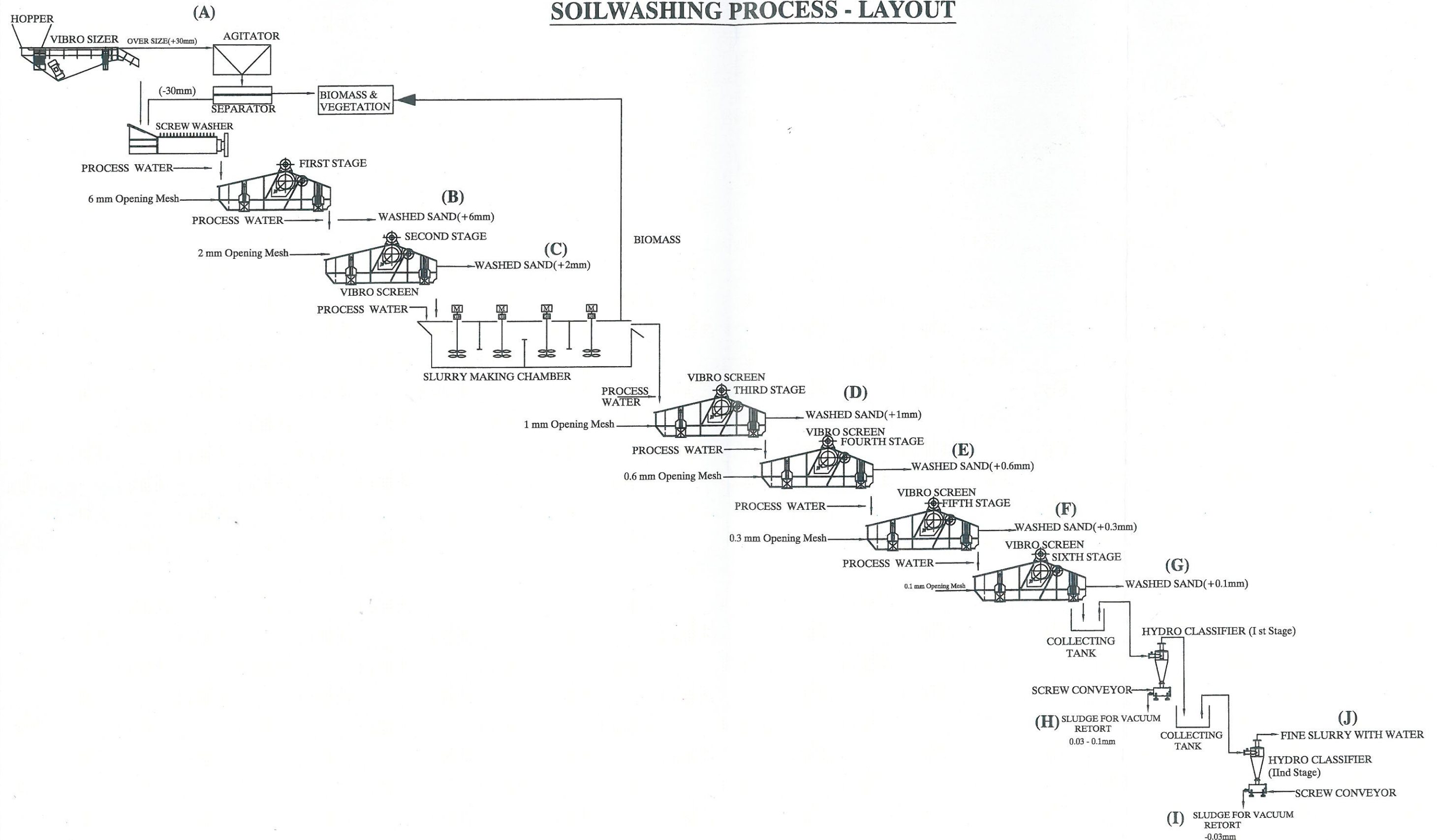
TITLE : MATERIAL FLOW FROM EXCAVATION AREA TO MAIN PLANT AREA

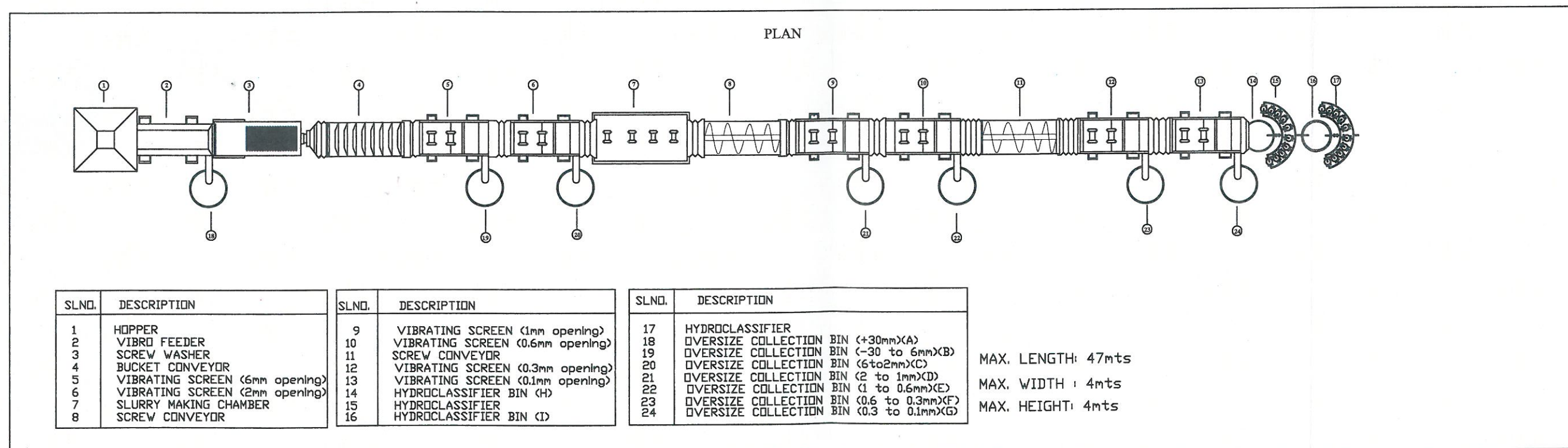
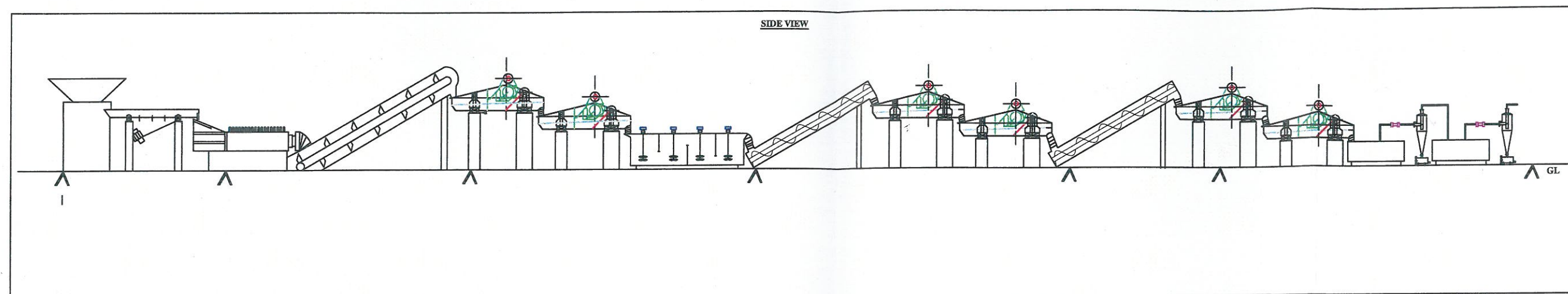


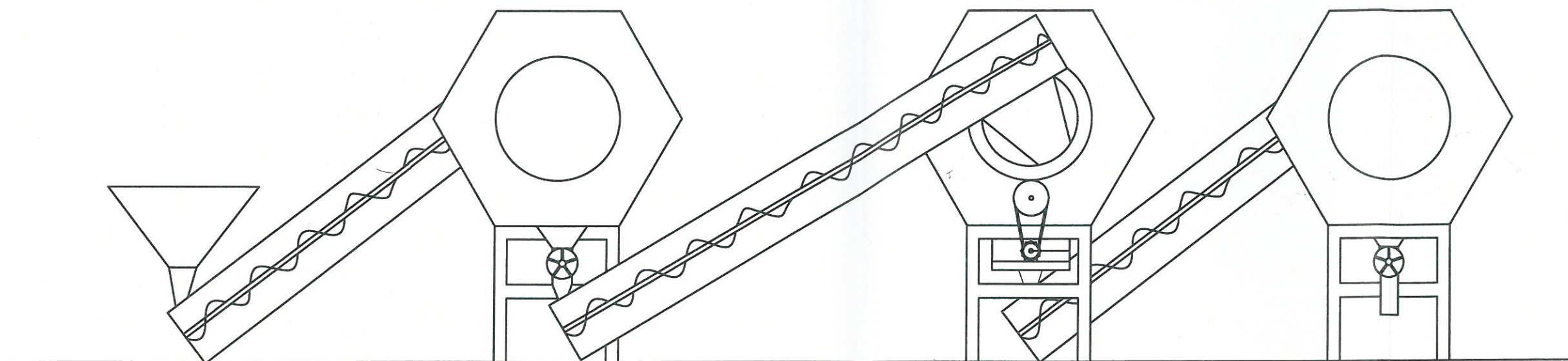
PROJECT : SOIL REMEDIATION, KODAIKANAL

DATE 12/09/07	DRN : STR	CHK : RC	APPD : MM	REV 0
ERM JOB NO. : 16501		DRG. NO. : ERM/16501/IN/13		

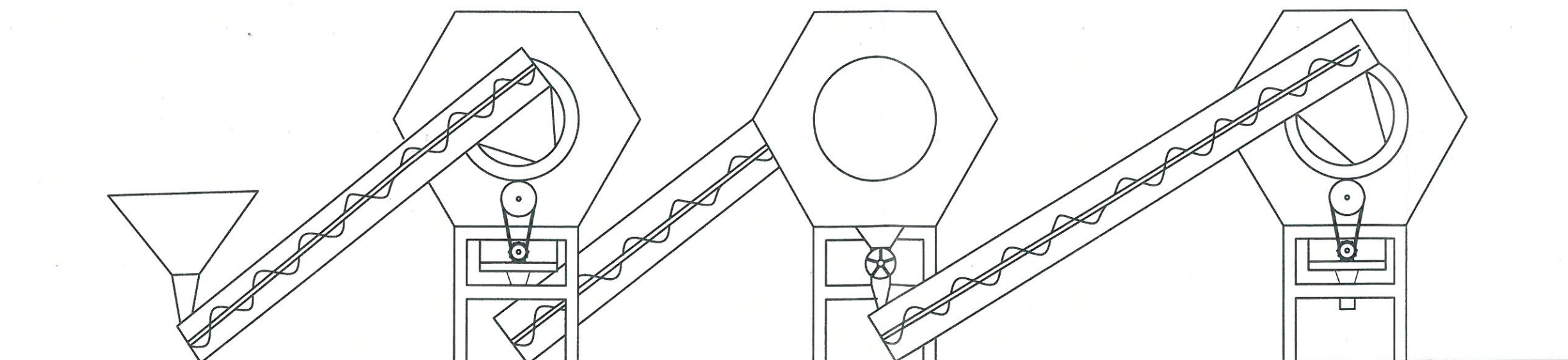
SOILWASHING PROCESS - LAYOUT







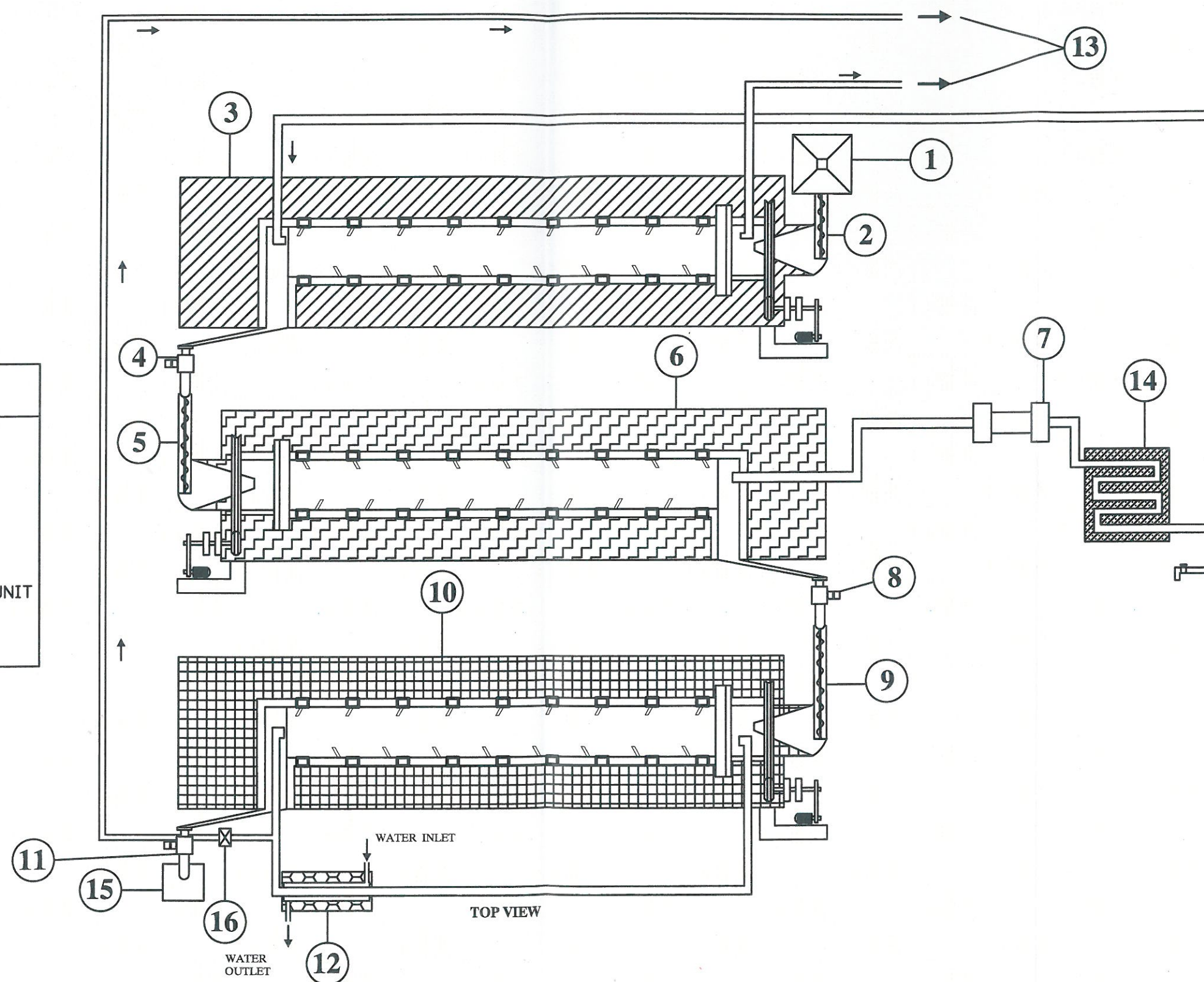
LEFT SIDE VIEW



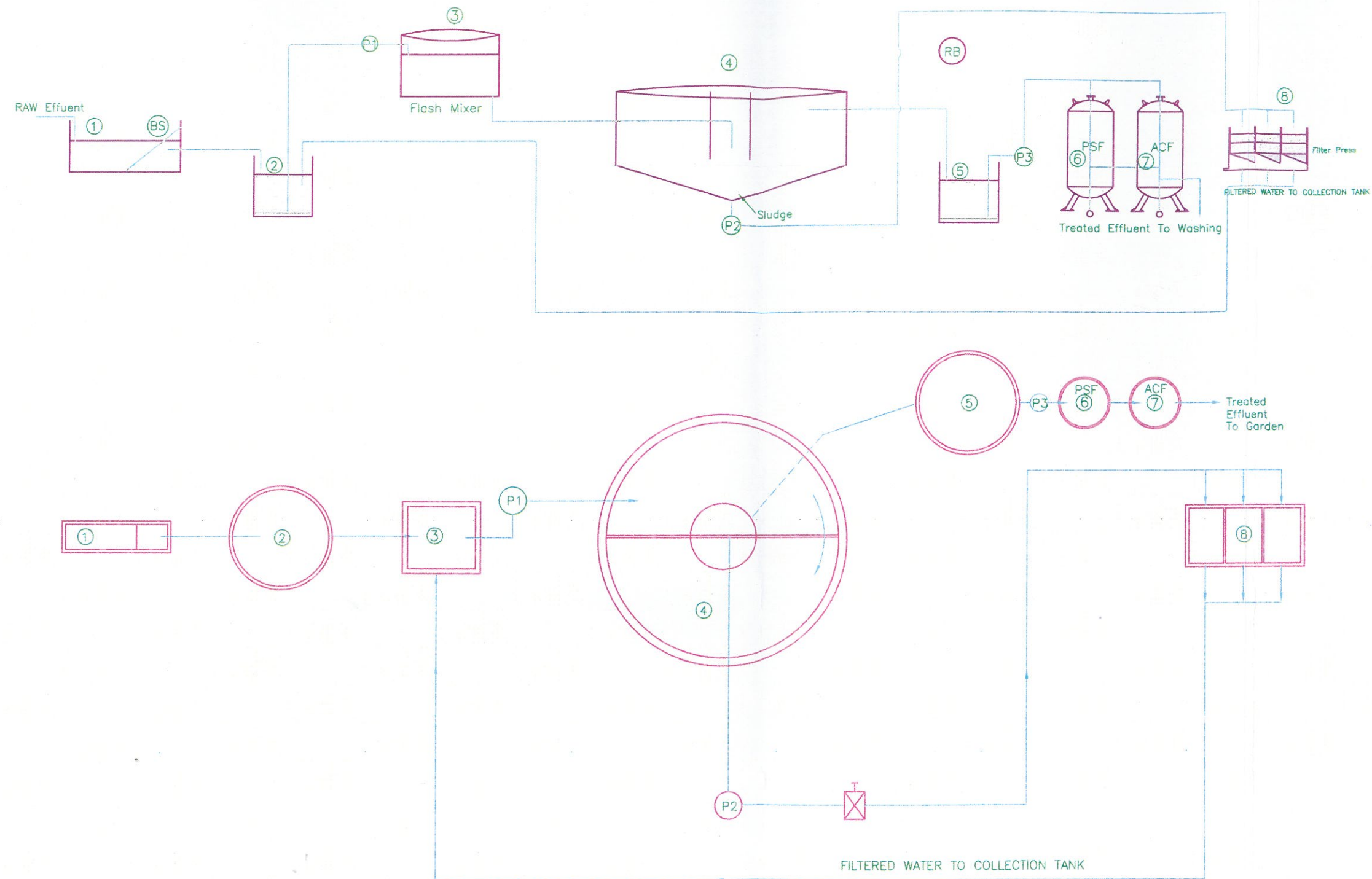
RIGHT SIDE VIEW

PLAN

SL NO.	DESCRIPTION
01	HOPPER
02,05,09	SCREW CONVEYOR
03	DRYER
04,08,11	VACUUM LOCK
06	VACUUM RETORT
07	VACUUM PUMP
10	COOLER
12	HEAT EXCHANGER
13	AIR PROCESSING UNIT
14	CONDENSER
15	COLLECTING BIN
16	BY PASS VALVE



DATE : 12/09/07	DRN : STR	CHK : RC	APPD : MM	REV : 0
ERM JOB NO. : I6501		DRG. NO. : ERM/I6501/IN/20		

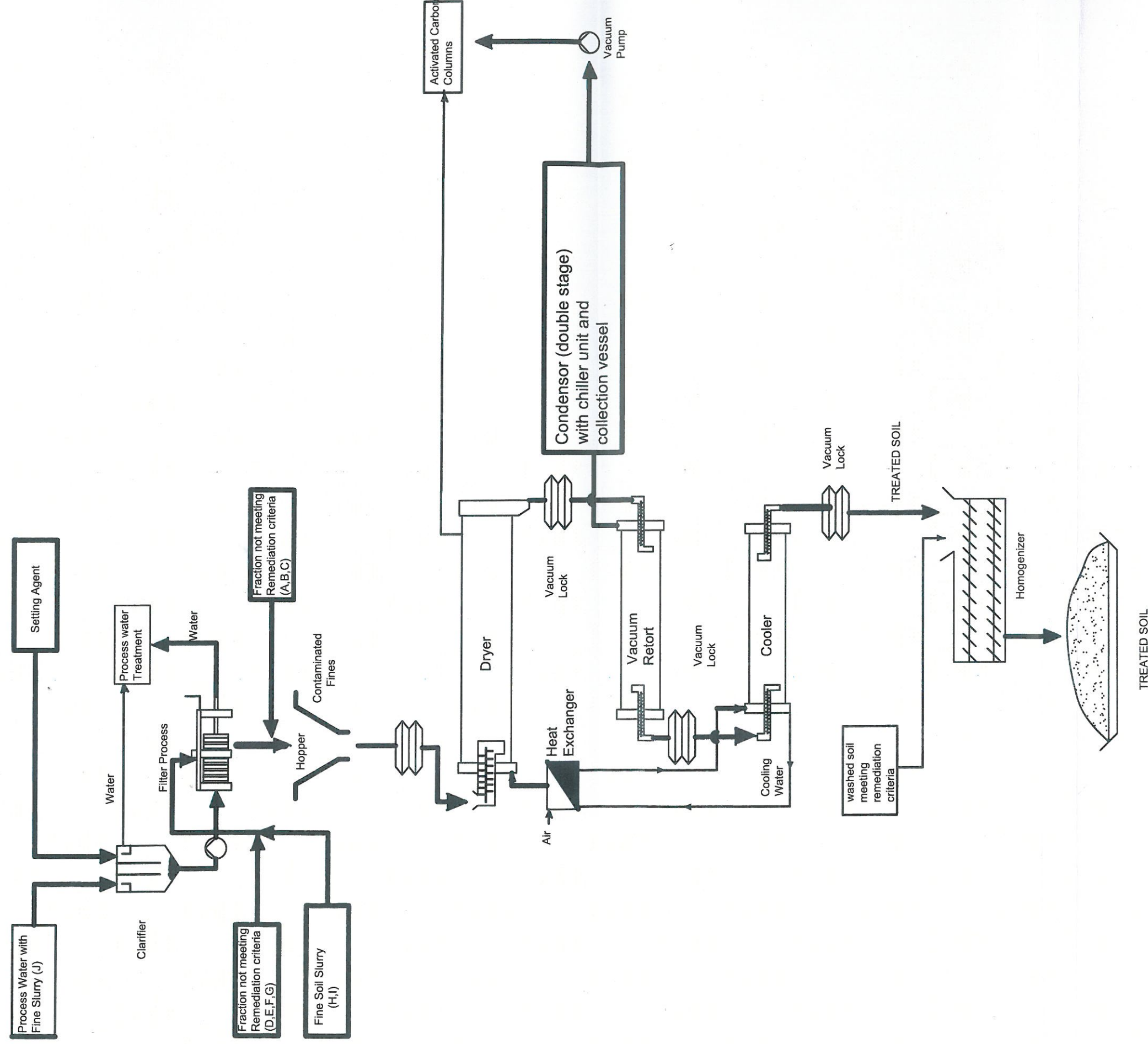
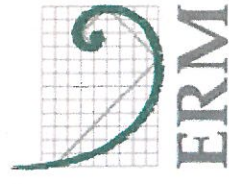


LEGENDS:-

BS - BAR SCREEN
P1 - RAW EFFLUENT TRANSFER PUMP
P2 - Slurry (Sludge) PUMP
P3 - FILTER FEED PUMP

S.NO	DESCRIPTION	S.NO	DESCRIPTION
1	Grit Chamber	5	Treated Water Tank
2	Equalization Tank	6	Pressure Sand Filter
3	Flash Mixer	7	Activated Carbon Filter
4	Clarifier	8	Filter Press

VACUUM RETORT PROCESS



DATE 12/09/07 DRN : STR CHK : RC APPD : MM REV 0

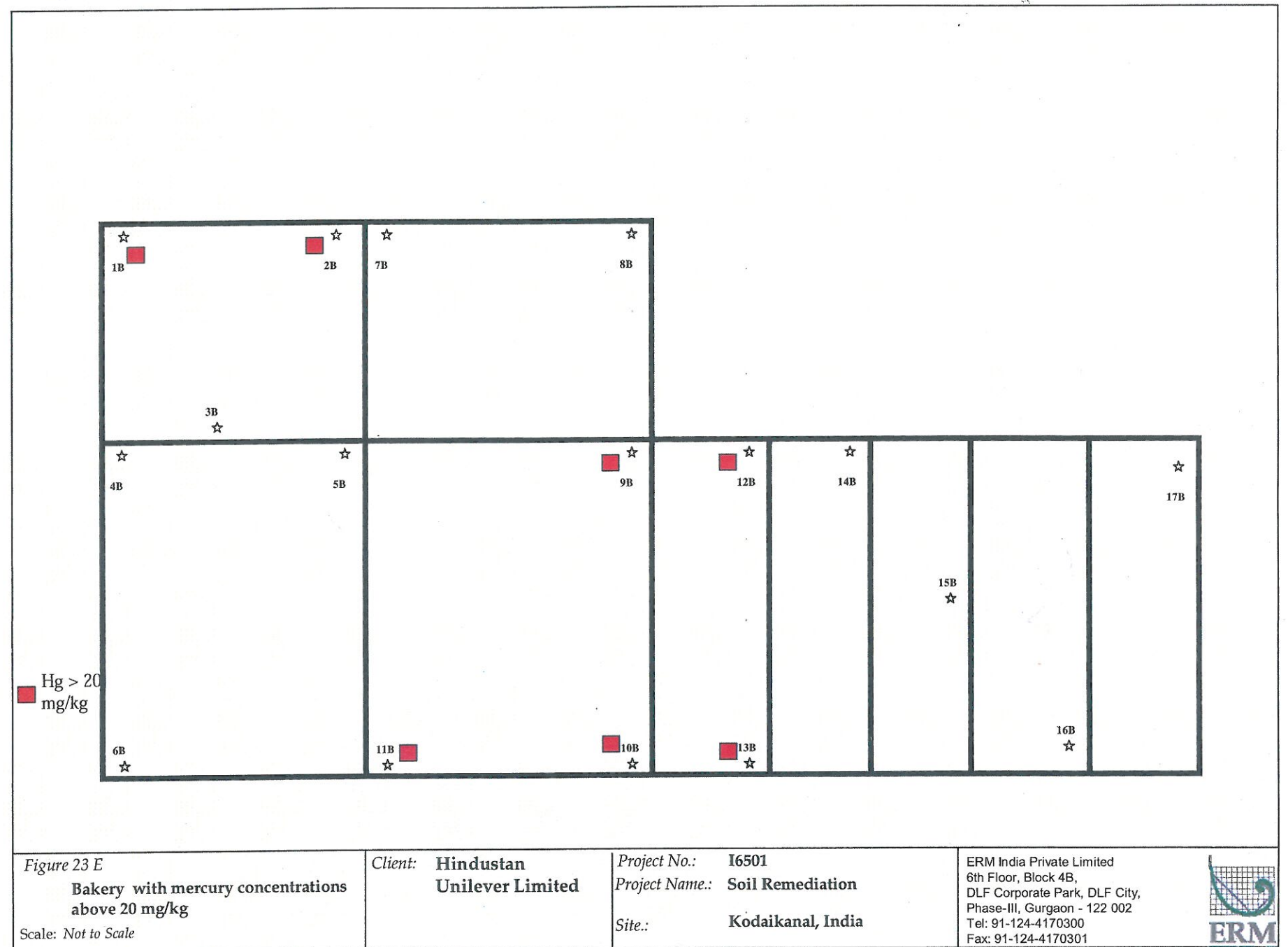
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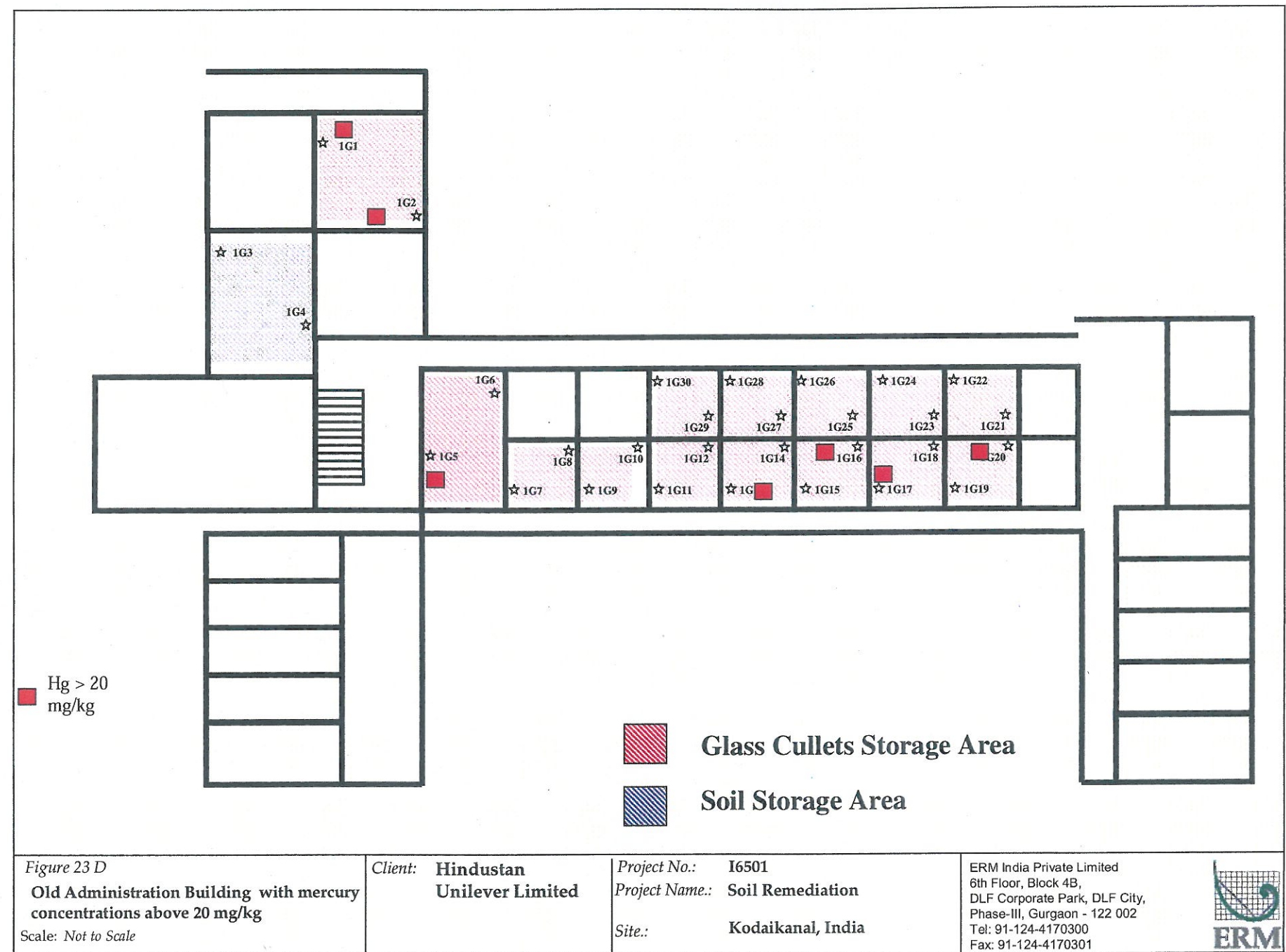
CLIENT : HINDUSTAN UNILEVER LIMITED

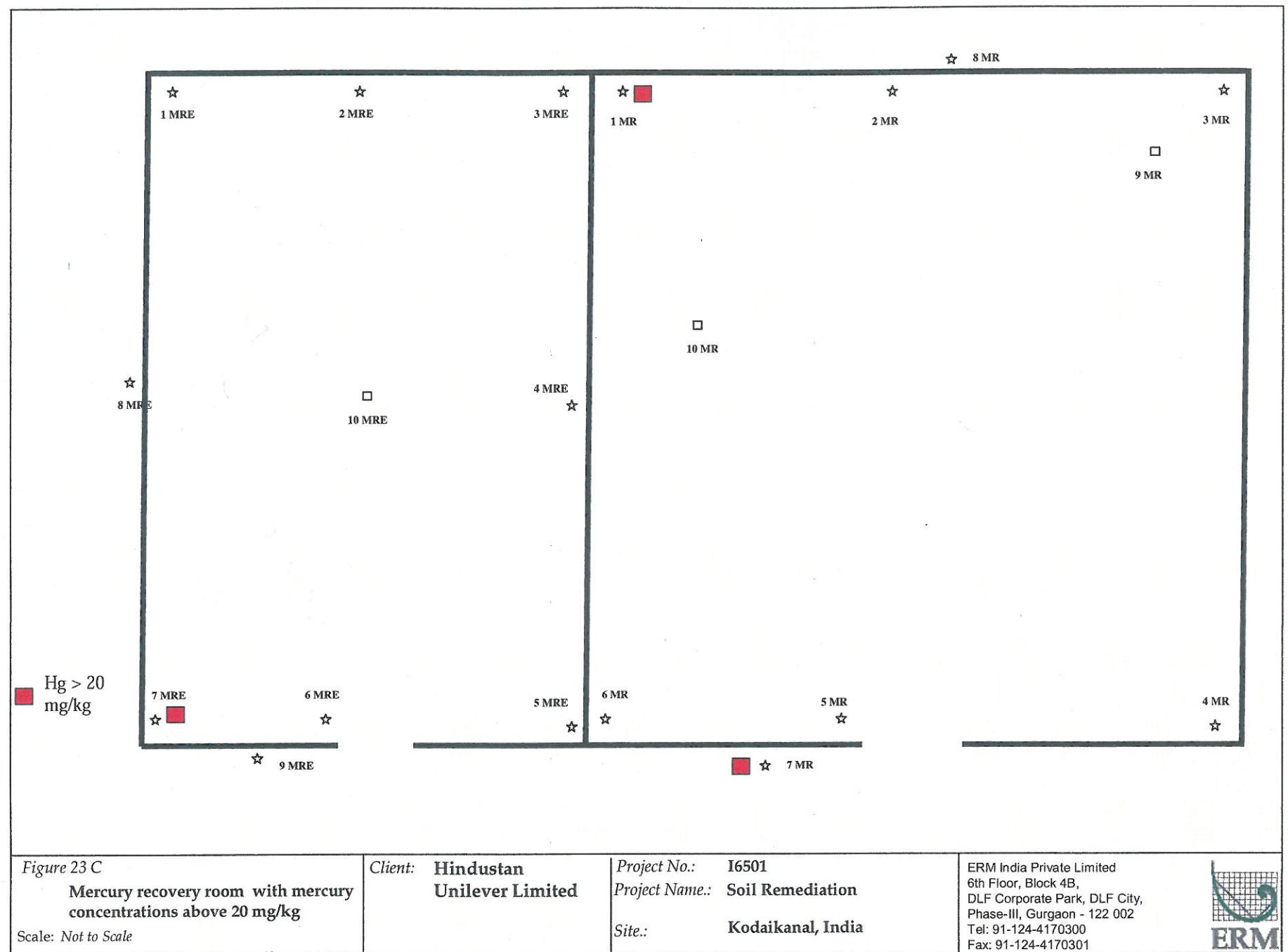
TITLE : VACUUM RETORT FLOW SCHEMATIC

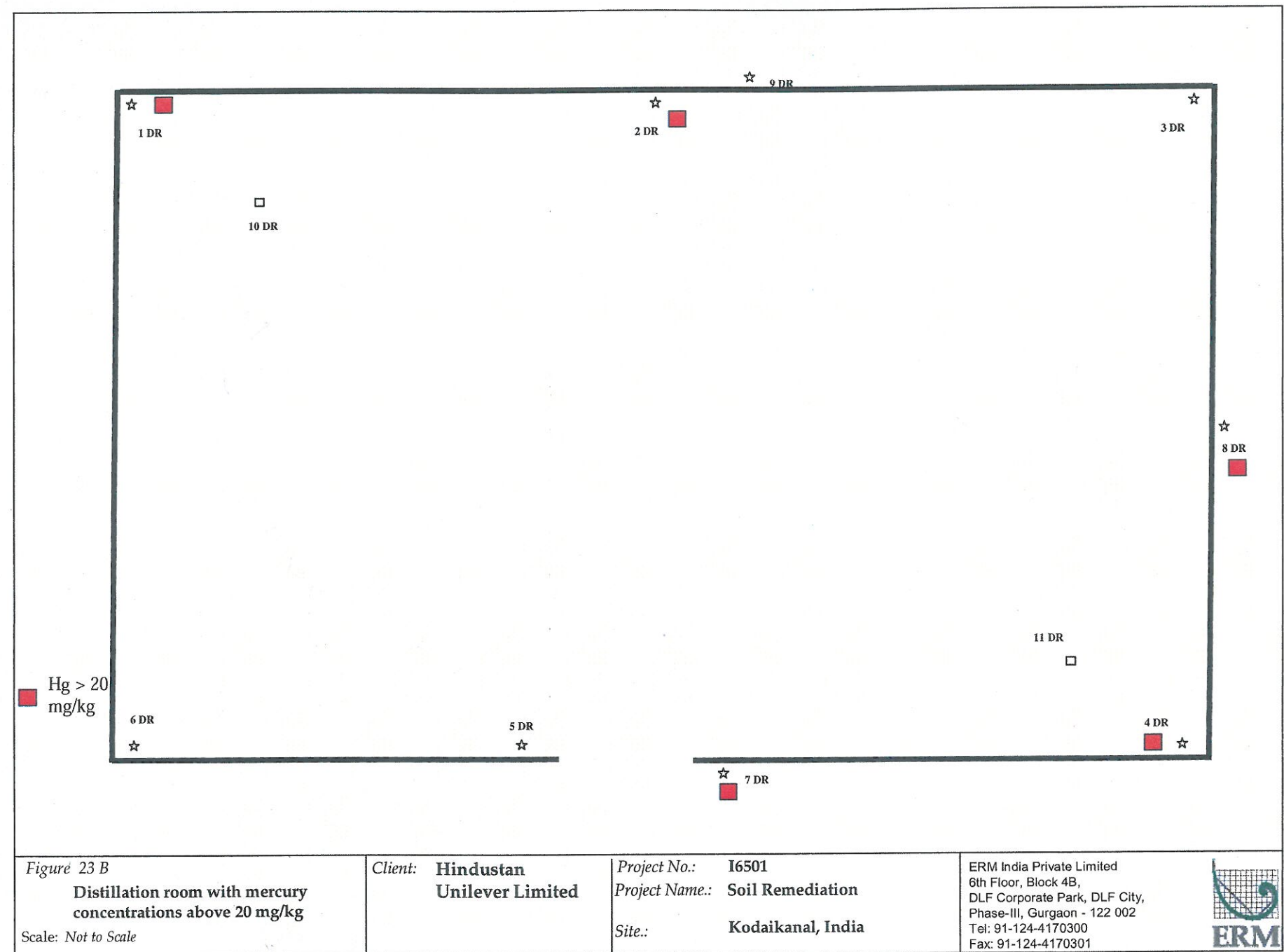
FIGURE 19

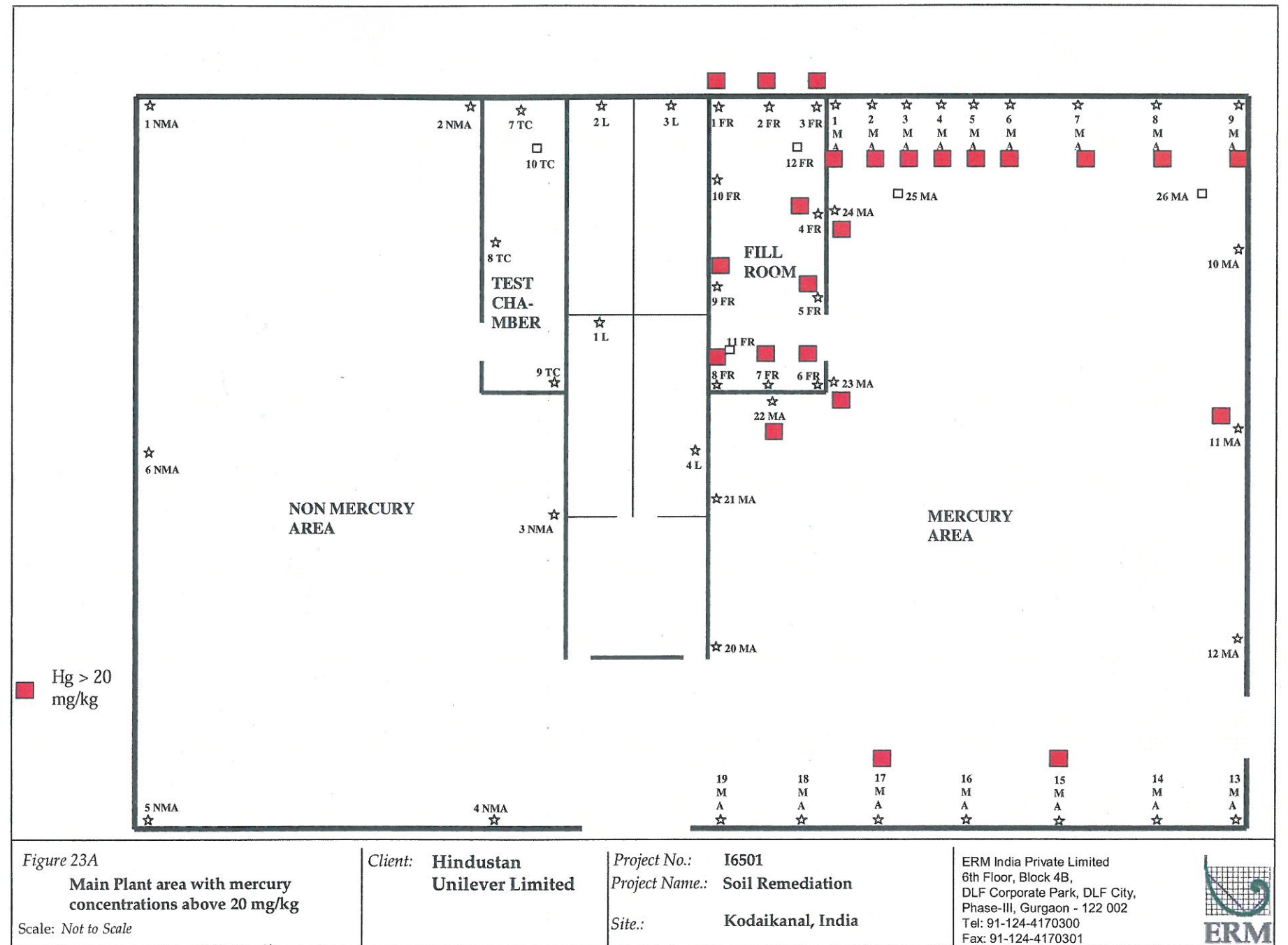
PROJECT : SOIL REMEDIATION, KODAIKANAL











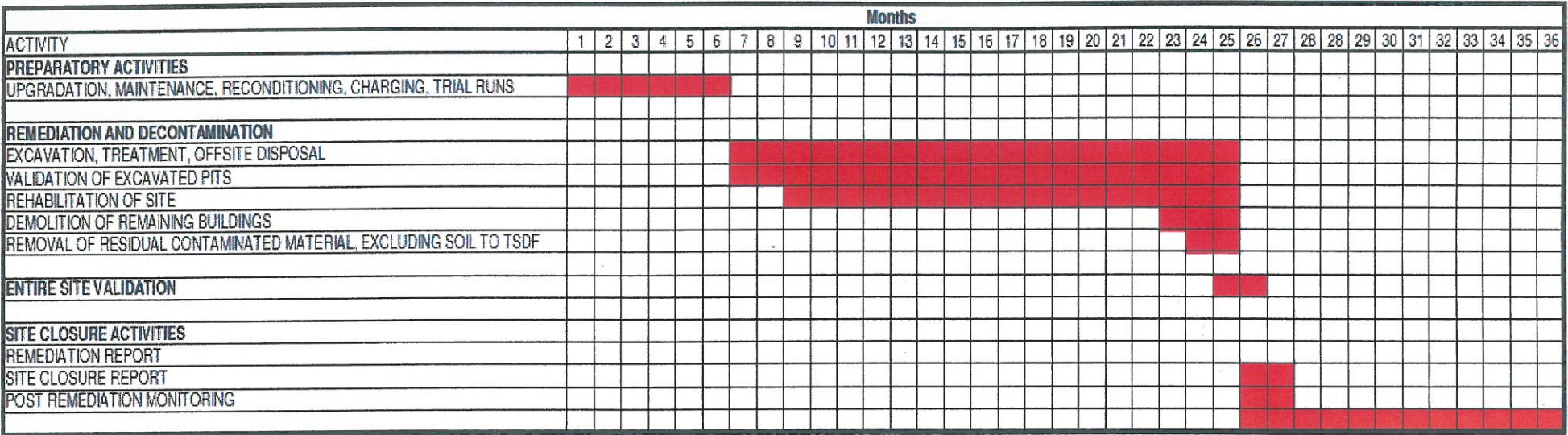


Figure 24
Indicative Project Schedule
Scale: Not to Scale

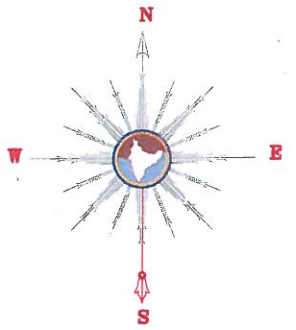
Client: Hindustan Unilever Limited

Project No.: I6501
Project Name.: Soil Remediation
Site.: Kodaikanal, India

ERM India Private Limited
6th Floor, Block 4B,
DLF Corporate Park, DLF City,
Phase-III, Gurgaon - 122 002
Tel: 91-124-4170300
Fax: 91-124-4170301



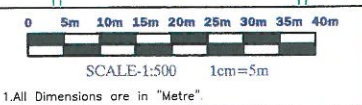
NORTH



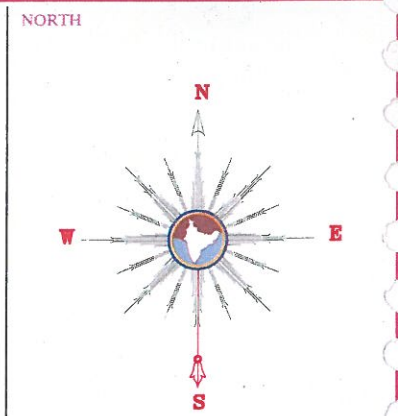
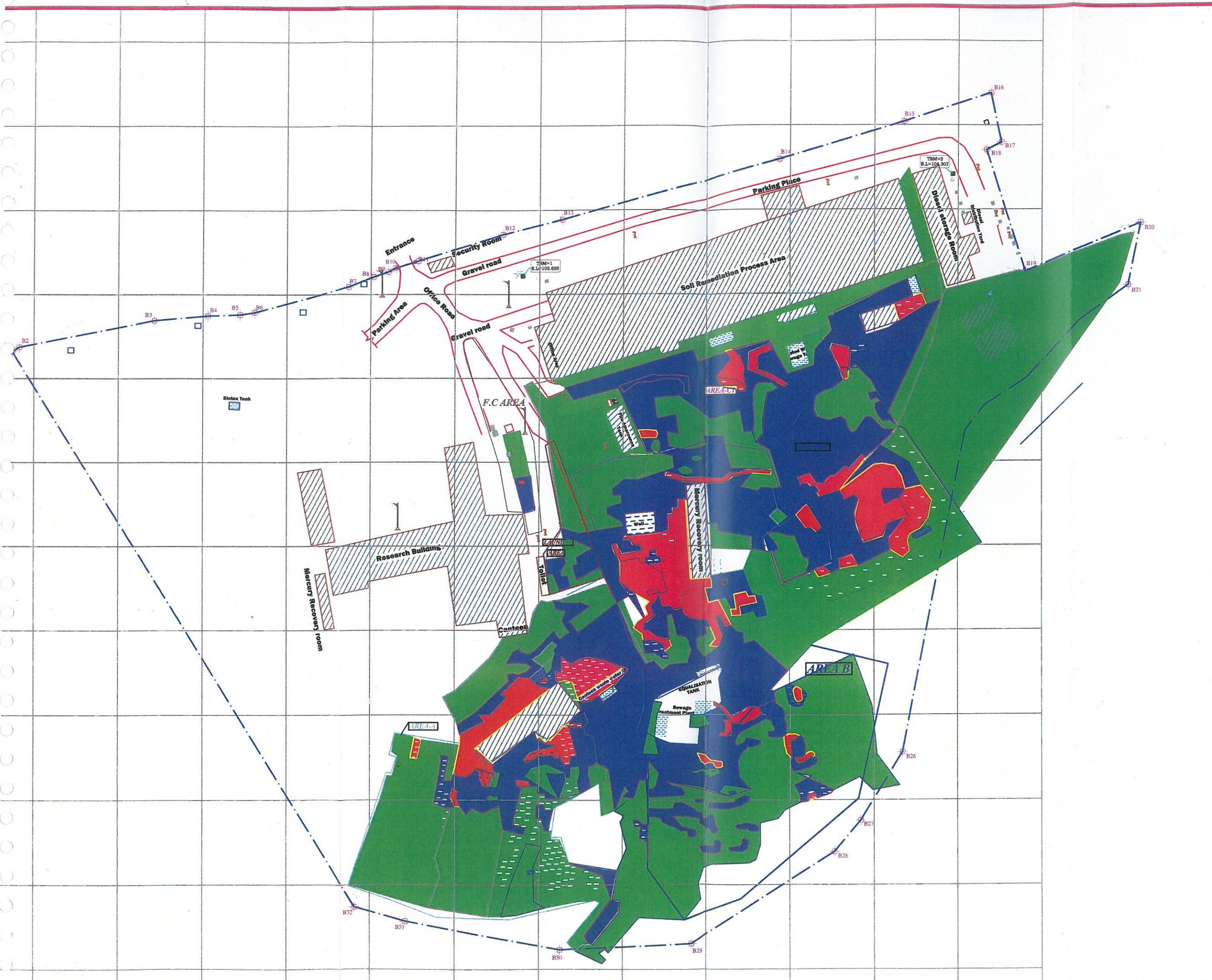
LEGEND-1

DESCRIPTION	SHAPE
CONCENTRATION < 20 mg/kg	1
CONCENTRATION 20-100 mg/kg	1
CONCENTRATION > 100 mg/kg	1
BUILDING	
AREA A	
AREA B	
AREA C1	
AREA C2	
SCRAP AREA	
F.C AREA	
LAUNDRY AREA	
BUILDING	
SUMP	
ROAD	
COMPOUND WALL	
MANHOLE	

DRAWING SCALE



1.All Dimensions are in "Metre".



LEGEND-1

DESCRIPTION	SHAPE
CONCENTRATION < 20 mg/kg	Green square
CONCENTRATION 20-100 mg/kg	Blue square
CONCENTRATION > 100 mg/kg	Red square
BUILDING	Hatched rectangle
AREA A	Blue dashed line
AREA B	Blue solid line
AREA C1	Pink solid line
AREA C2	Green solid line
SCRAP AREA	Black solid line
F.C AREA	Black solid line
LAUNDRY AREA	Black solid line
BUILDING	Black solid line
SUMP	Black solid line
ROAD	Red solid line
COMPOUND WALL	Blue dashed line
MANHOLE	Black circle

