

Annex-I

Questionnaire

EA FOR INDIA – VOCATIONAL TRAINING IMPROVEMENT PROJECT

Name of the ITI		Survey Team Code (CEPT/EMC)	
Address of the ITI		Date of Survey	
Telephone Nos.		Fax No.	
Email			
Name of the Head/ Principal		Mobile No.	
Geographic outline of the ITI location (Hilly/Flood Plan/Arid/Coastal/Urban/Rural)		Agro-Climatic Zone (Hot& Dry/Warm-Humid/Moderate/Cold-Cloudy/Cold-Sunny)	
State of the ITI (Upgraded/Not Upgraded)		If upgraded, Attach the details of up gradation & Year of Up gradation	
Campus connectivity from nearest Urban/Rural /Rly Stn		Available transportation facilities (by institute and other means) & its condition, frequency	

a. Location of campus/buildings

	Near Wetland			Near Endangered species habitat/Sanctuary	
	Near Corel reef/ CRZ Area			Near Archaeological site	
	Land slide danger			Ground water contaminated area	



Earthquake/Cyclone/Flood prone area (If In Seismic Zone III, IV &V, Compliance with IS 1893/ If in Cyclone prone Zone, Compliance with IS 875/ If in Flood prone areas as in Flood Atlas by CWC)		Unsafe levels of arsenic, fluoride etc (if any)	
Near any kind of waste dumping, processing or disposal site (industrial, municipal, hospital waste, or near any portable source of infection or pollution (slaughterhouses, hospitals without systematic bio-medical waste disposal mechanism, cattle-sheds, etc.)		Any other, provide details	
If Yes, Please provide the details like distance from the campus, spread of the special area, photographic details		If falling within a special /sensitive area how far has been complied with the environmental regulations.	

b. Campus Details

Total campus area: _____ m²/Ha
Total built up area: _____ m²/Ha

Footprint/ Ground Coverage
Total Open Area : (Paved/un Paved)

Broad Land Use Break Up

Location	Total number A	Total area (m ²) B	Average area (m ²) B/A	Total Window area (m ²)	% Window area/ of total room area
Class room					
Laboratories/Workshop					
Library					
Auditorium					
Office/Administration					
Canteen					
Playground					
Rest rooms					
Urinals					
Hostels On Campus					



Location	Total number A	Total area (m ²) B	Average area (m ²) B/A	Total Window area (m ²)	% Window area/ of total room area
Off Campus					
Misc. Parking Pump House Estate Office Any other					
Proposed Built up (Future Expansion)					

Students/Staff Details	
No. of students	
Daytime Students:	
Resident Students:	
No. of male	
No. females	
No. of staff members	
Resident Members	
Toilets	
(nos. for Male/ female)	
Toilets (nos. for staff)	
Hostel (Male/Female)	



Building Materials Details				
Main Bulding				
Workshops				
Hostel				
Building materials Used (Visual Observation)			Please provide the broad description of the building materials like Brick/Stone/Fly Ash Bricks	
Walls				
Roof			Any low cost or environmentally sound material used?	
Paving				
Doors/Windows				
If non Combustible materials, in compliance with IS 3808 -1966?				
Whether available locally? if not, procured from what distance?				
(Provide Details of Basic Materials)				
Use of Asbestos or Low cost Paints such materials			Comments of the Surveyor (In terms of material used)	
Plot/ Building Margins on ground (Adequate/In Adequate)			Campus Signages (for Entry/Toilets/Drinking water/Fire Exits etc) Adequate/Inadequate Legible/Not	
Any Encroachment Visible				



			Language	
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c. Special design consideration for difficult sites (To be ascertained from the Campus Architect/Engineer)

Landslide prone hilly areas			Destruction of swamp, marshes or wetland	
Cutting of slopes ,erosion			Hazard safety signage and exits – evacuation in cyclone, earthquake etc	
Earthquake Zone			Flood	
Steep slope			Destruction of forest	
Filling up of land/Raising of Land			Surveyor's Comments, If any	

d. Planning and design Aspects

Day light factor (Available/Not Available)			Disable friendliness Ramp Provided/Not Provided	
Ventilation			Any other Visible Aspects	
Class Room				
Labs				
Office			Acoustics (Noise Safe guards) Class Rooms Auditorium Workshops	
Auditorium				
Fenestration as % of floor area?				
Orientation of the main buildings N—E—W—S			Emergency Exits (Provided/ Not Provided)	



Same as above			Compound wall / fencing	
Security systems (cabins, no. of entry points, alarm system, intercom connectivity to main gates, etc.)			Parking (Area Details, Accessibility)	

e. Details of Electrical equipments/fixtures

Details	Class rooms	Laboratories	Canteen	Rest room	Urinals	compound
Tube light						
Total number ¹						
Average wattage (W)						
Average working hours/day						
Incandescent lamps						
Total number ¹						
Average wattage (W)						
Average working hours/day						
Compact Fluorescent lamps (CFL)						
Total number ¹						
Average wattage (W)						
Average working hours/day						
Ceiling fans						
Total number						
Approximate span (inch)						
Regulator type (electronic/non electronic)						
Working hours/day						
Average wattage (W)						
Air conditioner/ cooler						
Make						
Approx. Tonnage						

¹ Include working as well as non-working fixtures



Details	Class rooms	Laboratories	Canteen	Rest room	Urinals	compound
(Ton)						
Age						
Type (split/window)						
Average Operating hours/day						
Motors						
Rating (HP)						
Operating hours						
Purpose						
Misc. equipment²						
Wattage (W)						
Operating hours/day						

Electricity/Energy consumption pattern

- Average electricity consumption (kWh/month): _____
- Average electricity bill (Rs. /month): _____
- Electricity consumption in March/April (kWh/month): _____
- Electricity bill in March/April (Rs. /month): _____
- Electricity consumption in January (kWh/month): _____
- Electricity bill in January (Rs. /month): _____
- Water heating (electric/solar/wood): _____

f. Campus Infrastructure

Water Consumption			Campus Waste Water Disposal (Soak pit/ Septic Tank/Under ground Drainage)
Source, No. of Pumping Hrs			
Water Storage details			
Drinking Water (Demand, No. of Outlets, treatment details)			Any Re-use/Recycle Initiatives ?
Other Consumption in			Sullage/Grey Water
			Sewage
Toilets/Workshops/Labs			
Garden Watering			
Any Water Consumption details (Total)			
Presence of Water Meters or any			

² Water coolers, electric water heaters etc.



	Use Water Saving Appliances/devices?				
	Campus Solid Waste (Waste from Class rooms/canteen/office/hostels)	No of Staffs engaged in Solid Waste Mgmt and Cleaning of Toilet			
Details of Collection/Storage /Disposal					
	Campus Hazardous Waste (waste from Labs/Workshops)			Provide details of Campus Haz Waste Management	
Any Use of Solar Panels? If yes, Provide details					
Campus Energy Orientation(Any Solar Active/Solar Passive Architectural Elements in Class Rooms, Office, Library, Auditorium, Workshops)					

g. Maintenance of basic facilities – which arise due to the provision or lack of provision of the required facilities –

	Drinking water (cleaning Frequency of the tanks/Filters)			Sanitation/Toilet facilities (General Hygiene/ Cleaning Frequency)	
	Prevention of Infections (Use of Alum/Chlorine or any other Insecticides/ Pest Control)			Solid Waste Clearance Frequency from Class/Office/Canteen/Public Areas	
	Name/Type				



	Frequency				
	Preventive/Protective Gears				
Painting (Type of Paints, Quality Frequency, Storage)					
Inside/Outside Walls					
Doors/Windows					
Furniture					
	<p>Handling of Hazardous materials, waste or instruments</p> <ul style="list-style-type: none"> - Whether present or not. - Details of waste, material or instrument - Ways and means adopted to properly store, handle, use and if need be dispose it. Contaminate its quality? - Awareness regarding this among students, lab assistants, faculty etc. - Handling means like gloves, masks, protective clothes etc. - Preparedness in case of an accident. - Any kind of regular monitoring done – awareness workshops (faculty, students, lab assistants), checking of preparedness instruments etc. - Has any kind of accident occurred in past, if yes - details 			Any other Good House Keeping Measures/Innovations	
				Fire safety regulations complied with? Fire Tender movement, Fire Hydrant, Extinguishers?	
				Staircase/ Fire Exits as per NBC norms : (not more than 22.5 mts.)	
				Fire Drills (Conducted/Not Conducted)	
				Availability of First Aid kits in campus, workshop / laboratories	

h. Any Encroachment within/around the campus

	Encroachment on land if any			Additional land required for follow up etc	
	Encroachment or squatters if are to be removed (past /Future up gradation)			Extent of land required	
	Current ownership of land (Provide details)			Number and type of area of encroachment or squatter to be removed	
Number of families affected (Due to Past/Future Up gradation)					
If clearance is required, Provide details					
	No. of families dependent on this land			Number of Persons	
Socio-Economic details of the Project Affected People/Economic Activities:					
Education					
Occupation					
Income					
Family Size					
Dependency Ratio					
Housing Size (Present Unit Details like Number of Rooms, Size etc)					

i. Status of surrounding natural resources

	<p>Surface water body</p> <ul style="list-style-type: none"> - Existing water body passing through campus or near campus - If yes, details like contains water or not, variation in water level during year, name of the water body, its quality, use etc. - Any activity in the campus which is contaminating or likely to contaminate its quality? - If yes, actions taken by the institute. 			<p>Ground water</p> <ul style="list-style-type: none"> - Details like level of ground water table, rate of depletion, quality, use of ground water in any activity of institute, - If used for drinking purpose, any ground water quality tests being performed by the institute. - Any activity in the campus which is contaminating or likely to contaminate its quality? - If yes, actions taken by the institute. 	
	<p>Biologically diverse area like forest area / wild life sanctuary</p> <ul style="list-style-type: none"> - Any 'declared' or 'reserved' forest passing through campus or near campus 			<p>Air</p> <ul style="list-style-type: none"> - Identify point sources of air pollution within campus (furnace, incinerator, workshops, laboratories, solid waste burning, burning of garden waste etc.) 	

<ul style="list-style-type: none"> - If yes, details like components of biodiversity (flora / fauna), its area, quality etc. - Any tribal settlement within the forest area, which is near to campus. - Any activity in the campus which is damaging or likely to damage it? - If yes, actions taken by the institute. - Has the campus development affected the forest in any way? 			<ul style="list-style-type: none"> - Type of pollutants - Duration and frequency of pollution - Does it create nuisance for the users of the campus? - Any activity in the campus which is contaminating or likely to contaminate its quality? - Action taken by the institute 	
<p>Land</p> <ul style="list-style-type: none"> - Any kind of land pollution - If yes, identify sources within campus (solid waste dumping, hazardous chemicals dumping, workshops residue dumping, leachates due to dumping of waste, etc.) - Duration and frequency of pollution - Method adopted to clear land pollution - Does it create nuisance for the users of the campus? - Place of dumping & does institute administration aware about it? - Disposal of the dumped waste? - Action taken by the institute 			<p>Coastal Regulation Zone</p> <ul style="list-style-type: none"> - Is campus located within CRZ? - Distance from coast line? - Clearance regarding location obtained from the competent authority or not? - Any biologically important species like coral reefs, mangroves, turtle nest etc. exists on this coast, if yes its distance from the campus. - Any activity in the campus which is violating the CRZ regulation? - Action taken by the institute in case of any kind of pollution caused in this area. - Action taken by the institute to adhere to this notification? 	

j. Details about workers in the institute

<p>Child labour</p> <ul style="list-style-type: none"> - Is there any employee on the pay role of the institute who is below 14 years of age? - If yes, details like designation scale of payment, responsibilities assigned, since how many years has he been working there etc. - Is there any below 14 years of age working within any area of institute premises (though not employed by the institute)? - If yes no. of children. - Details like where he is employed (construction worker, garden cleaning, canteen etc.) - Are the institute authorities aware about it? - Action taken by the institute 			<p>Inter-State Migrant workers</p> <ul style="list-style-type: none"> - Are there any immigrant employees on the pay role of the institute? - If yes, details like designation scale of payment, responsibilities assigned, class of worker, place from where he/she has migrated, since how many years has he been working there etc. - Any kind of special benefits given to them like residential accommodation, health facilities etc. <p>Building construction labour</p> <ul style="list-style-type: none"> - Any on-going construction in the campus premises? - No. of labourers (total / male / female / children) - Minimum wages, working hours, shifts, etc. 	
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				<p>- Facilities provided by the contractor – labour camp, toilets, bath, child care, health and life insurance, first aid, etc.</p> <p>- Are the workers satisfied with the facilities or not.</p>	
<ul style="list-style-type: none"> • Campus Best Practices, if any, in terms of : <ol style="list-style-type: none"> 1. Any Stated Environment Management Policy in the campus or in the Hostels 2. Green Building 3. Green Construction Management Practices 4. Solid waste Management (Composting/Veri-Composting/Re-use/Recycle) 5. Water Saving Appliances/Water Audit 6. Energy Management/Audit/Energy saving appliances 7. Rain Water Harvesting 8. Waste Water/Grey Water Recycling 9. Any Decentralized Waste water treatment systems (DEWATS) 10. Any Good House Keeping Measures 					

k. Course Curriculum (To be discussed with the Faculty and Students separately)

<p>Environmental risk and hazard</p> <p>(Coverage of Trade related Issues)</p> <p>Texts</p> <p>Practical</p> <p>Awareness Workshops</p>
<p>Coverage of Occupational Health and Safety Issue</p> <p>Text</p> <p>Practical</p> <p>Awareness Workshops</p>
<p>Trade Specific National/International Environmental/Health/safety norms</p>
<p>Trade Specific any Best Practices/ Benchmarks</p>



Annexure / Submittal Requirements

1. Layout Plan/Sketch site plan showing north (in case site plan is not made available from the ITI) (annex – 1)
2. Sketch plan of building orientation with direction and basic window and ventilation arrangement. (annex – 2)
3. Interview /Discussion with Principal and faculty (annex -3)
4. Interview /Discussion with the students representative (past and present) (annex -4)
5. Discussion with the local trade/industry (annex-5)
6. Photographs/Maps/Google Image(if available)