

India Vocational Training Improvement Project
FORM A: CHECKLIST FOR COMPLIANCE OF EXISTING CONDITIONS AT THE ITI

NOTE: This form is required to be submitted by the PWD along with the up-gradation proposal drawings and estimate.

ADDRESS OF ITI: _____ WHETHER ALREADY UPGRADED: [Yes / No], Date: _____

NAME OF PRINCIPAL: _____ DATE OF CONDUCTING SITE ANALYSIS: _____

1. LOCATION/ SITE CONDITIONS

Does the site lie within 300 m distance of:

a. Any environmentally sensitive locations like:

Protected/ declared forest area, River/ Pond/ Lake/ any surface water body, Coastal zone, Mangrove areas , Bio-diverse zones, Wildlife sanctuary/ tiger reserves, Desert oasis ecosystems, Mountain ecosystems, Ground water exploited/ polluted zones
PLEASE SPECIFY WHICH: _____

YES NO

b. Any potentially hazardous locations like:

High voltage lines, River flood plain, Steep slopes prone to landslides, Cyclone, tsunami prone coastal areas, Earthquake prone zones, Municipal/ Hazardous waste disposal site, Fire hazard areas like industries, Noisy locations like near highways
PLEASE SPECIFY WHICH: _____

YES NO

c. Are there any encroachments within the campus/ area needed for upgradation?
 YES NO

2. SITE LAYOUT

a. Existing ground coverage = _____
 Is it as per the local building bye laws?
 YES NO

b. Existing FAR/ FSI = _____
 Is it as per the local building bye laws?
 YES NO

c. What is the open setback around the building on each side?
 Front _____, Sides _____, Rear _____
 Is it less than 6m on front, rear or sides?
 YES NO

c. Is the building orientation responsive to the climatic conditions?
 YES NO

d. What percentage of total open space is under green area? Should be not less than 50%.

e. Is the open space area well landscaped with trees planted?
 YES NO

f. Is the local flora and fauna in the campus being preserved?
 YES NO

g. Barrier-free planning of ITI campus:

(i) Ramps for disabled have been provided at entry & all level changes in the open areas?
 YES NO

(ii) Proper graphics and signage have been provided for disabled facilities and at exits?
 YES NO

(iii) Proper outdoor lighting has been provided in paths and walkways?
 YES NO

h. Site drainage

(i) What is the prevalent direction of natural slope on the site?
 Is there storm water drainage provision in direction of the natural slope?
 YES NO

(ii) Are there any water harvesting structures or water conservation measures on site?
 YES NO

i. Is renewable energy source being used for outdoor lighting?
 YES NO

j. Whether outdoor lighting uses energy efficient lighting fixtures?
 YES NO

3. BUILDING DESIGN

a. What is the built up area per student (in sq.m) {=Total built up area/ Total number of students }

 It should not be less than 4 sq.m per student

b. Check if the ratio of window opening area to the floor area (sq.m) in classrooms, laboratories & other rooms is not less than:
 YES NO

- one-tenth of floor area - hot dry climate
- one-sixth of floor area - hot wet climate
- one-eighth of floor area - intermediate climate
- one-twelfth of floor area - cold climate

c. Is there provision for natural ventilation in all habitable rooms and toilets?
 YES NO

d. Barrier free design considerations:

- (i) Ramps for disabled have been provided at all entries and level changes in the building? **YES** **NO**
- (ii) Disabled friendly railings have been provided in all staircases? **YES** **NO**
- (iii) At least one disabled toilet has been provided on each floor? **YES** **NO**
- (iii) Are the water fountains disabled friendly? **YES** **NO**

e. Fire safety

- (i) Fire exit staircases have been provided with exit signage conforming to fire safety standards? **YES** **NO**
- (ii) Whether fire fighting equipment is available in working condition in the laboratories? **YES** **NO**
- (iii) Whether fire safety signages are installed at all locations as per fire safety standards? **YES** **NO**

f. Building materials

- (i) Has locally available building material been used for the walls, roof, doors & windows and flooring? **YES** **NO**
- Walls –
- Roof –
- Floor –
- Doors and windows –
- (ii) Whether any **alternative building materials** like fly ash bricks, mud blocks, ferro-cement, etc. or alternate technologies like filler slabs, precast construction, etc. have been used? Please give details _____

4. BUILDING SERVICES

- a.** Is there any innovative use of **energy efficient systems**? Please give details _____
_____ **YES** **NO**
- b.** Whether any **renewable energy sources** are being used, for example, solar water heater, solar lighting, hydro energy, geothermal energy for cooling, etc? Please give details.
_____ **YES** **NO**
- c.** Is there use of any energy efficient electrical fittings and devices in the building? **YES** **NO**
- d.** Are there any water saving devices and fittings used in the toilets? **YES** **NO**

- e.** Are drinking water faucets provided on each floor and away from the toilet areas? **YES** **NO**

Please provide ratio {=Total number of students/ number of drinking water faucets}. This ratio should not exceed 50. _____

- f.** Are toilets provided on each floor? **YES** **NO**

Is there proper natural light and natural ventilation in each toilet? **YES** **NO**
Please provide window size and area _____

It must not be less than 0.3 sq.m and 0.3m, respectively.

Please provide following ratios:

- (i) Total number of male students/ number of water closets}. This ratio should not exceed 40. _____
- (ii) Total number of male students/ number of urinals}. This ratio should not exceed 20. _____
- (iii) Total number of male students/ number of wash basins}. This ratio should not exceed 60. _____
- (iv) Total number of female students/ number of water closets}. This ratio should not exceed 25. _____
- (v) Total number of female students/ number of wash basins}. This ratio should not exceed 40. _____

- g.** Is the waste water of the campus being disposed into piped sewerage network? **YES** **NO**

If no, then what is the disposal system? _____

- h.** Is there any provision/ system for recycling or reuse of waste (grey) water for other purposes like landscaping etc. **YES** **NO**

- i.** Is the sewage (brown water) being disposed into piped sewerage network? **YES** **NO**

If no, then what is the disposal system? _____

- j.** Is the solid waste from the campus (classrooms, kitchens, laboratories, etc.) being collected and disposed into the municipal waste stream? **YES** **NO**

If no, then where is it disposed? _____

- k.** Is the hazardous waste from the campus (laboratories, maintenance activities, etc.) being collected and incinerated/ sent to hazardous waste disposal site? **YES** **NO**

If no, then where is the hazardous waste disposed/ collected? _____

THIS IS TO CERTIFY THAT:

(Please tick)

- The site analysis at the ITI, _____ campus has been conducted prior to the preparation of the up-gradation drawing and estimates.
- The up-gradation proposal ensures addressal of the lacunae in the existing layout/ design for compliance to the EMF requirements.
- For each existing non-compliance in the above form, there is a proposal to ensure conformance (to be shown in drawing or photograph or as a description)
- Wherever conformance is not possible due to any reason, it is clearly mentioned in the proposal with valid reasons given.

ATTACHMENTS REQUIRED WITH THIS FORM:

(Please tick)

- Location plan showing distance of ITI from any environmentally sensitive or hazardous locations marked clearly and labeled.
- Drawings showing the existing site plan, surrounding land use, proposed up-gradation and existing accessibility for disabled
- Layout plan drawing showing:
 - Existing Buildings/Structures
 - Existing slopes & site drainage pattern
- All floor plans showing location of existing toilets and drinking water faucets
- Floor plans to show improved disabled access within the building

Verified by me: _____ Signature
_____ Date
_____ Designation

_____ Name of site analyser