

India Vocational Training Improvement Project
FORM B: CHECKLIST FOR COMPLIANCE OF PROPOSAL DRAWINGS AND ESTIMATE

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 SUBMITTING PROPOSAL: _____

1. LOCATION/ SITE CONDITIONS

If the answer to questions 1(a) and/or 1(b) in FORM A is Yes:

a. Does the up-gradation proposal include measures to mitigate impact/ damage to the environmentally sensitive surrounding areas? Is it shown in any drawing? Does the estimate include mitigation costs? YES NO

b. Does the up-gradation proposal include measures to mitigate impact/ damage to the ITI from the hazardous surrounding areas? Is it shown in any drawing? Does the estimate include mitigation costs? YES NO

2. SITE LAYOUT

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

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

c. What is the proposed 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 proposed building orientation responsive to the climatic conditions? YES NO

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

e. Is there a landscaping plan/ strategy for the open space? YES NO

f. If answer to question 1(f) in FORM A is NO, How is the local flora and fauna in the campus proposed to be preserved? YES NO

g. Barrier-free planning of ITI campus:

(i) If answer to question 1g(i) in FORM A is NO, Have ramps for disabled have been proposed at entry & all level changes in the open areas? YES NO

(ii) If answer to question 1g(ii) in FORM A is NO, have proper graphics and signage for disabled facilities and at exits been proposed? YES NO

(iii) If answer to question 1g(iii) in FORM A is NO, is there a lighting plan proposed for the open spaces/ landscaped areas? YES NO

Does it propose to use energy efficient lighting fixtures? YES NO

h. Site drainage

(i) What is the prevalent direction of natural slope on the site? If the existing site drainage does not follow the natural ground slope, is the proposal correcting it? YES NO

(ii) If not already existing, are any water harvesting structures or water conservation measures proposed in the up-gradation plan? YES NO

i. Is renewable energy source proposed to be used for outdoor lighting? YES NO

3. BUILDING DESIGN

a. What is the proposed 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 proposed 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 proposed habitable rooms and toilets? YES NO

d. Barrier free design considerations:

(i) If not already existing, have ramps for disabled been provided at all entries and level changes in the building? YES NO

(ii) Disabled friendly railings have been proposed in all staircases and landings? YES NO

(iii) At least one disabled toilet has been proposed on each floor? YES NO

(iii) Are the proposed water fountains disabled friendly? **YES** **NO**

e. Fire safety

(i) If answer to question 3e(i) in FORM A is **NO**, have fire exit staircases have been proposed with exit signage conforming to fire safety standards? **YES** **NO**

(ii) Whether fire fighting equipment is proposed in all proposed laboratories? **YES** **NO**

(iii) Whether fire safety signages are designed for all locations in the proposed areas as per fire safety standards? **YES** **NO**

f. Building materials

(i) Does the proposal use locally available building material 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 proposed? Please give details **YES** **NO**

4. BUILDING SERVICES

a. Is there any innovative use of **energy efficient systems** proposed? Please give details **YES** **NO**

b. Whether any **renewable energy sources** are proposed, for example, solar water heater, solar lighting, hydro energy, geothermal energy for cooling, etc? Please give details. **YES** **NO**

c. If not already existing, is there any proposal of putting energy efficient electrical fittings and devices in the building? **YES** **NO**

d. If not already existing, is there any proposal of using water saving devices and fittings in the toilets? **YES** **NO**

e. If answer to question 4(d) in FORM A is **NO**, are drinking water faucets proposed 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. If answer to question 4(f) in FORM A is **NO**, are toilets proposed 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 for proposed design:

(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. If the waste water of the campus is not being disposed properly, then what is the proposed disposal system?

h. If not already existing, is there any proposal of a system for recycling or reuse of waste (grey) water for other purposes like landscaping etc. **YES** **NO**

i. If the sewage (brown water) is not being disposed properly, then what is the proposed disposal system? **YES** **NO**

j. If answer to question 4(j) in FORM A is **NO**, is the solid waste from the campus (classrooms, kitchens, laboratories, etc.) proposed to be collected and disposed into the municipal waste stream? **YES** **NO**

If no, then where is it proposed to be disposed? _____

k. If answer to question 4(k) in FORM A is **NO**, Is the hazardous waste from the campus (laboratories, maintenance activities, etc.) proposed to be collected and incinerated/ sent to hazardous waste disposal site? **YES** **NO**

If no, then where is the proposal? _____

5. UP-GRADATION ESTIMATE

a. Does the estimate include cost of all environmental mitigation measures during construction process. (**Please see FORM C for requirements of EMF for construction compliance**) **YES** **NO**

THIS IS TO CERTIFY THAT:

(Please tick)

- The site analysis at the ITI, _____ campus had been conducted prior to the preparation of the up-gradation drawing and estimates and submitted in FORM A along with this form.
- The up-gradation proposal ensures addressal of the requirements of the EMF into the proposed layout/ design.
- All costs of environmental mitigation are included in the estimates as separate 'environmental mitigation costs'
- 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)

- FORM A and its attachments
- Drawings showing the existing site plan and **improved accessibility for disabled**
- Layout plan drawing showing:
 - Proposed changes in buildings or additions
- All floor plans showing proposed location of toilets and drinking water faucets.
- Floor plans to show improved disabled access within the building
- Details of building materials proposed to be used
- Luminous efficacy of luminary types proposed
- Waste water and Sewage disposal mechanism proposed
- Solid waste & hazardous waste management system and plan with narrative description
- Estimates including details of environmental mitigation costs**

Verified by me: _____ Signature
_____ Date
_____ Designation

_____ Drawings prepared by
_____ Estimate prepared by