

BIO GAS ENERGY TECHNICIAN (254)

The institution having the following requisite infrastructure, may apply for accreditation:

A. Class Room :

Class room for 25 students (minimum area 225 sq. ft.) should have proper ventilation, well-illuminated black board/white board and availability of adequate furniture and ceiling fans.

- B. Workshop :** The institution should have installed Biogas plants Kvic drum type/Janta type/Deenbandhu type and workshop. The size of workshop for 20 students should be at least 25ft. x 20 ft. with adequate lighting and exhaust & ceiling fans. The workshop should have the following Tool/ Equipments/Apparatus or material for Practical Training:

List of Tools and Equipment

| Equipment/tools | Qty. | List of non-consumables | Qty. |
|---|---------------|---|------|
| Digester(Fixed/Mobile Model) | 1 | Sink | 1 |
| PH meter | 1 | C.I. trap (nahani)+PVC trap | 2 |
| Glass jar | 1 | Check valve ½" | 1 |
| Glass bottle | 1 | Ferrule ½"-1" | 4 |
| Manometer | 1 | G.I. bend | 1 |
| Gas valve | 1 | Grating | 1 |
| Gas pipe fitting | 1 | G.I. union | 1 |
| Gas burner | 2 | ½" dia G.I. Elbow (1.25 cm) | 1 |
| Gas regulator | 2 | ½" dia G.I. pipes (1.25 cm) | 3 |
| Hammers of different weights | 2 | ½" G.I. Socket (1.25 cm) | 4 |
| Improved sickle/hansiya/ koyta (debgoo) | 15 | P.V.C. connector | 5 |
| Dryer oven | 1 | C.I. pipe 4" x 3" dia | 10 |
| Digestion and distillation unit | 1 | C.I. tee | 4 |
| Distillation water still | 1 | C.I. bend (diff. Size & types) | 20 |
| Spirit level | 2 | P.V.C pipe 4" q | 2 |
| Files of different types & sizes | 10 | P.V.C. bend 4" q | 3 |
| Chisel | 5 | P.V.C. elbow 4" q | 3 |
| Plumb bob | 2 | P.V.C. trap 4" q | 1 |
| Pipe die with bits | 2 | P.V.C. tee 4" q | 1 |
| Bench-vice | 2 | Gully trap | 4 |
| Caulking tools | 2 | Maser trap | 1 |
| List of consumable material | | ½" G.I. Tee (1.25 cm) | 5 |
| Lead | (as required) | ½" G.I. Nipple | 5 |
| Chemical binder | - do - | Iron clamp 4" dia | 6 |
| Waterproof tape | - do - | Bottle trap | 2 |
| Waterproofing compound | - do - | Waste water pipe 1 ¼" 3 lengths(3.25cm) | 3 |
| Wash basin | 1 | Mason Kit | 5 |

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Physical Facilities : The institution should have the facilities for Drinking water, Bathrooms & Toilets

Library : Library should have a minimum 20 books/articles/magazines etc. in related subject.

B. Faculty & Supporting Staff:

| Faculty & Supporting Staff | Educational/Professional Qualification | No. |
|----------------------------|---|-----|
| Coordinator | Graduate | 01 |
| Instructor | B.Sc. Ag./Diploma in Agriculture Engineering or Diploma in Mechanical/Civil/Electrical Engineering. Or B.Sc./Intermediate with Science subject with two years of experience in installation & maintenance of Bio-gas plant. | 01 |
| Receptionist cum clerk | Relevant to job | 01 |
| Assistant | Relevant to job | |

Batch size - Maximum 20 students in one batch.

Note : An institution can run Maximum 2 batches for this course.

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