

**SDG\_F\_18 SOFTWARE USER DOCUMENTATION****Revision History**

Version	DATE	Authored By	Reviewed By	REASON FOR CHANGE
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**SOFTWARE USER DOCUMENTATION  
FOR  
<A\_IASF>  
INTELLIGENT ADVISORY SYSTEM FOR FARMERS  
[AUGUST 03, 2011]  
C-DAC, MUMBAI**

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Format Template Number: **SDG\_F\_18**; Version 01; Effective: October 01, 2007

R=Research,A=Application Development, C=Content Development/Evolutionary, D=Deployment & Maintenance, N= Consultancy

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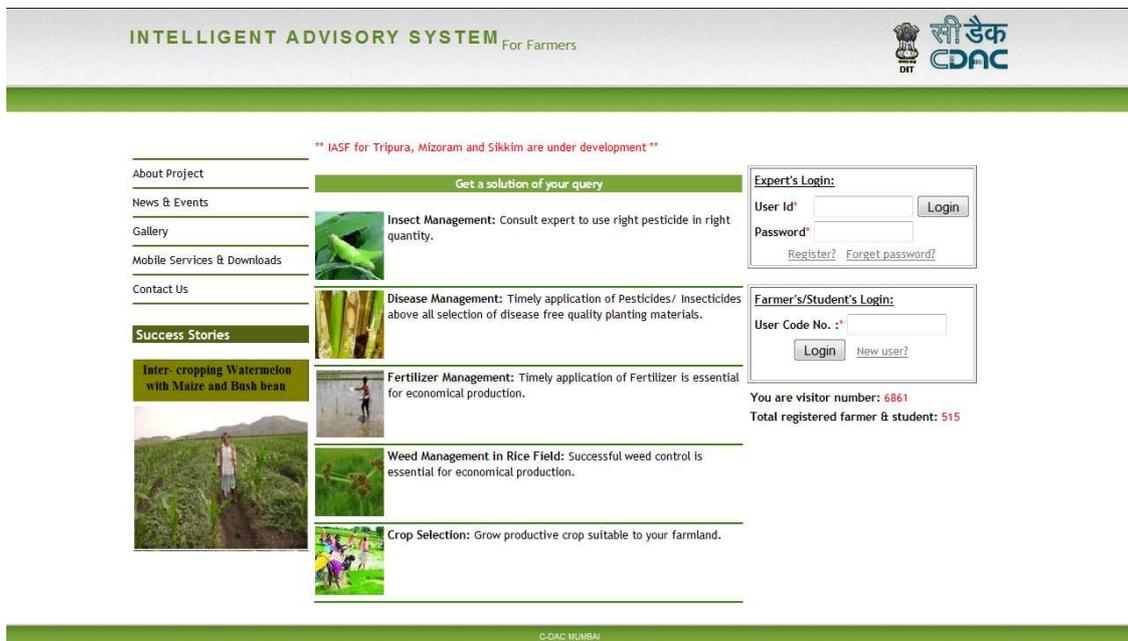
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## 1. Procedures

### 1.1. Logging on to IASF

When you open IASF website (<http://iasf.cdacmumbai.in>), the login page is displayed as shown in Figure 3.1.

If you are an **Expert** user then enter your **User ID** and **Password** and click on **Login** button. If you are a **Farmer** or **Student**, enter your **User Code Number** and click on **Login** button.



**Figure 3.1 IASF Login Page**

After successful login, user will be redirected to IASF home page as shown in Figure 3.2.

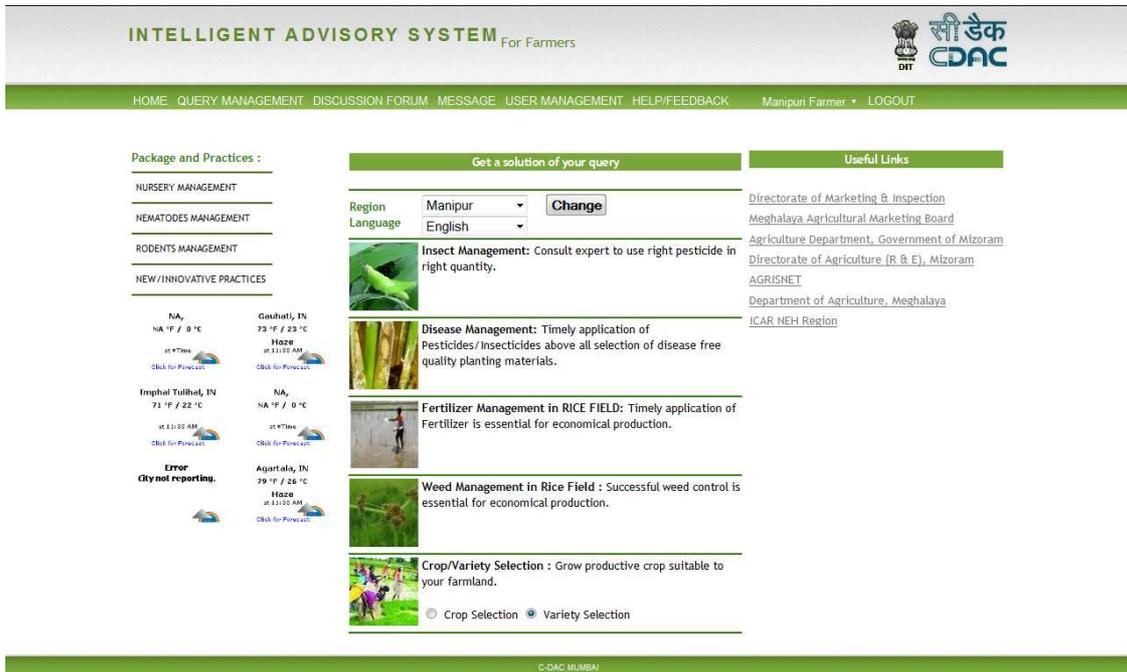


Figure 3.2 IASF Home page

## 1.2. Expert's Registration

An expert needs to register to get an IASF account. Expert can register into IASF in two ways, he can register himself or he can request to the administrator of his region. When an expert creates his/her own IASF account, the account needs to be approved by the administrator of his/her state/region. Once approved, the expert can start using IASF.

Follow the following steps to register

- Click on the **register** link of the IASF Login page (Figure 3.1). A new registration form is open as shown in Figure 3.2.
- Enter your full name in the **Full Name** field.
- Enter your Date of Birth in the **Date of Birth** field.
- Enter Father's name in the **Father's Name** field.
- Enter Spouse's name if married.
- Enter your address in the **Address** field.
- Enter occupation in the **Present Occupation** field.
- Select your specialized farming activities from the **Specialised Farming activity(s)** check field. You will be allowed to answer to the query of your specialized farming activity only. For example, a farmer's query for Disease Management cannot be answered by you if you are not specialized in this activity.
- Enter your qualification in the **Qualification** field.
- Enter your phone number in the **Phone Number** field
- Enter your valid email id in the **Email Id** field.

- l. Select Region/State from the drop down **Region/State** list. You will be allowed to answer to the farmers' queries of the selected state only.
- m. Select your preferred language from the **Preferred Language** drop down list. When you login into IASF, User Interface will be shown on your preferred language.
- n. You have to upload scan copy of **Undertaking Form** which can be downloaded from the given link.
- o. Enter prefer username in the **User Name** field. This username will be used to login into IASF.
- p. Enter password in the **Password** field.
- q. Enter your password again in the **Confirm Password** field.
- r. Click on **Create My Account**.

System displays a successful message showing that your account is successfully created. You will be informed to your mobile number and email id when your expert request is approved by the concerned administrator of the region.

Get an IASF account!

---

Full Name\*:

Date of Birth\*:

Father's Name\*:

Spouse Name(If married):

Address\*:

Present Occupation\*:

Specialized Farming activities\*  Insect Control  Weed Control  
 Disease Control  Crop Selection  
 Fertilizer Management

Educational Qualification \*:

Telephone/Mobile Number\*:   
(Only digit numbers [0-9] can enter)

Email Id \*

Region/State \*

Preferred Language\*

---

Upload Documents\*:

i. Attested age proof certificate i:

ii. Last Educational Qualification Certificate ii:

Upload Undertaking Form (download here) \*:

---

User Id \*

Password\*  (minimum 6 characters)

Confirm Password \*



Code:

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**Figure 3.3 Expert Registration form**

### 1.3. Farmer's/Student's Registration

Follow the following steps to create an IASF account

- a. Click on the **new user** link of the IASF Login page (Figure 3.1). A new registration form is open as shown in Figure 3.2.
- b. Select type of user (i.e. either Farmer or Student) from **User Type** field.
- c. Enter a valid email id in the **Email Id** field.
- d. Enter you qualification, if exist, in the **Highest Qualification** field.
- e. Select Region/State from the drop down **Region/State** list. Here, region is where you cultivate crop.

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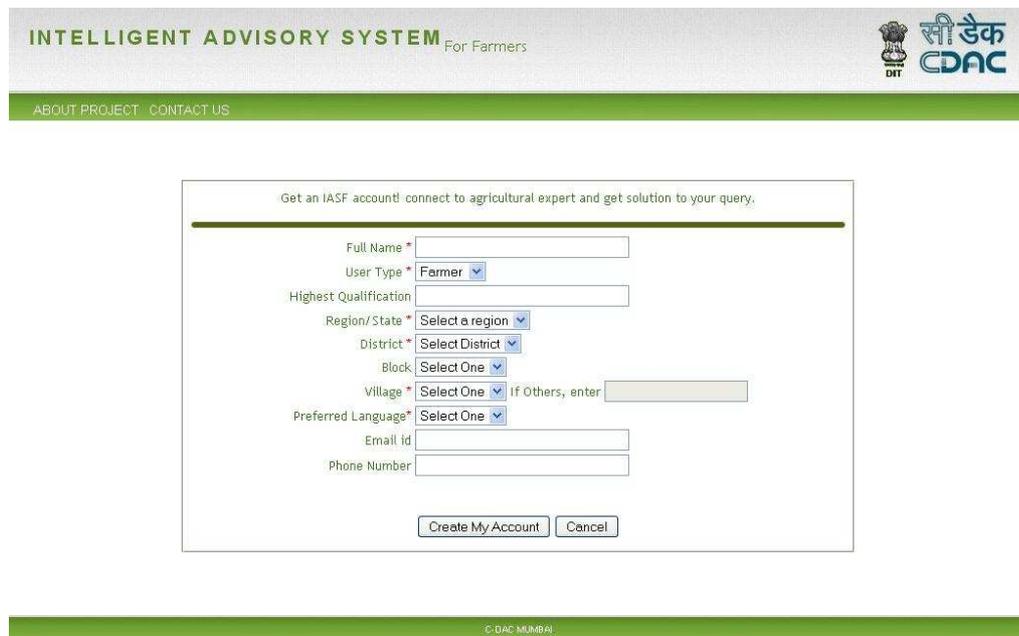
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- f. Select district from the **Select District** drop down list.
- g. Select block, if exist from the **Select Block** drop down list. If block does not exist for the selected District, the **Select Block** field is disabled.
- h. Select your village from the **Select Village** drop down list. If you can not see your village in the list then selects **Others** from the list. You will be asked to input your village name.
- i. Select your preferred language from the **Preferred Language** drop down list. When you login into IASF, User Interface will be shown on your preferred language.
- j. Input a valid email id in **Email Id** field.
- k. Input a valid phone number in **Phone Number** field.
- l. Click on **Create My Account**.

System displays a successful message showing that your account is successfully created and your **Identification Code Number**.



INTELLIGENT ADVISORY SYSTEM For Farmers

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ABOUT PROJECT CONTACT US

Get an IASF account! connect to agricultural expert and get solution to your query.

Full Name \*

User Type \* Farmer

Highest Qualification

Region/State \* Select a region

District \* Select District

Block \* Select One

Village \* Select One If Others, enter

Preferred Language \* Select One

Email id

Phone Number

Create My Account Cancel

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**Figure 3.4 Farmer's/Student's registration**

## 1.4. Forget Password/Change Password/Update Profile

### 1.4.1. Forget Password

In case when a user forgets his password he can reset his password with this option.

Follow the following steps to reset the password.

- a. Click on Forget password link given in the IASF index page as shown in fig. 3.1
- b. It opens a new page as shown in fig. 3.5
- c. Enter your User Id and Email Id and click on **Reset** button.
- d. Your new password will be sent on your email.

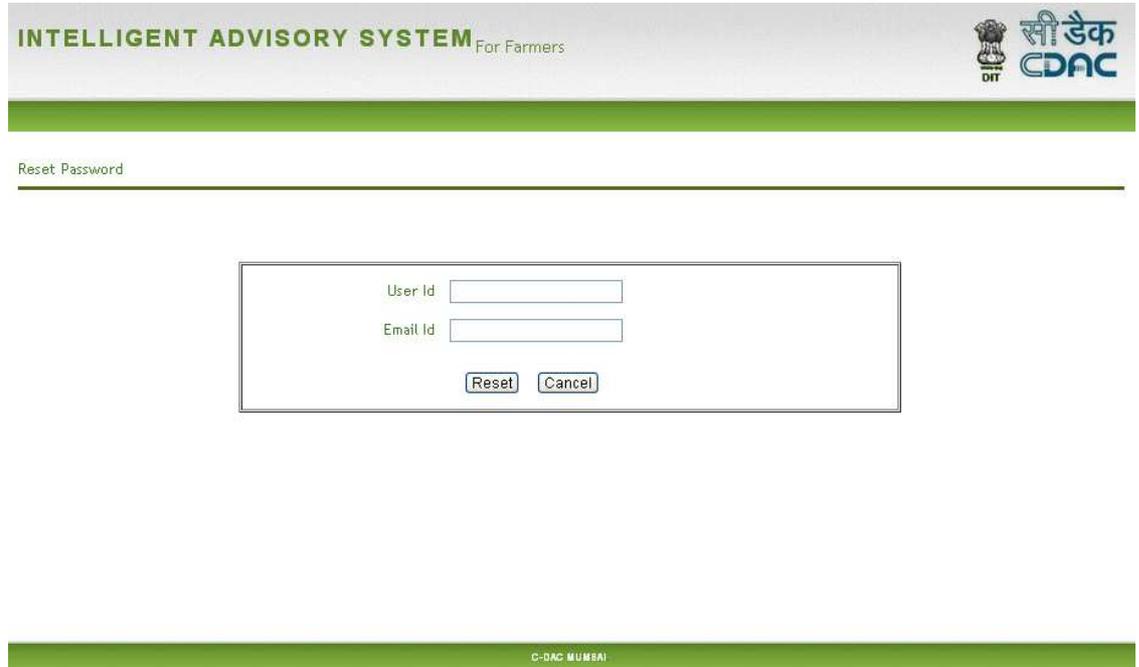


Fig. 3.5

### 1.4.2. Change Password

Administrators can change their password.

Follow the following steps to view a broadcast message.

- a. Log on to IASF.
- b. Take the mouse on your name given at top right on the IASF menu. It will show change password option as shown in fig. 3.6.
- c. Click on the option which opens a new window as shown in fig.3.7.
- d. Enter the new passwords and then click on done. The password will be reset.

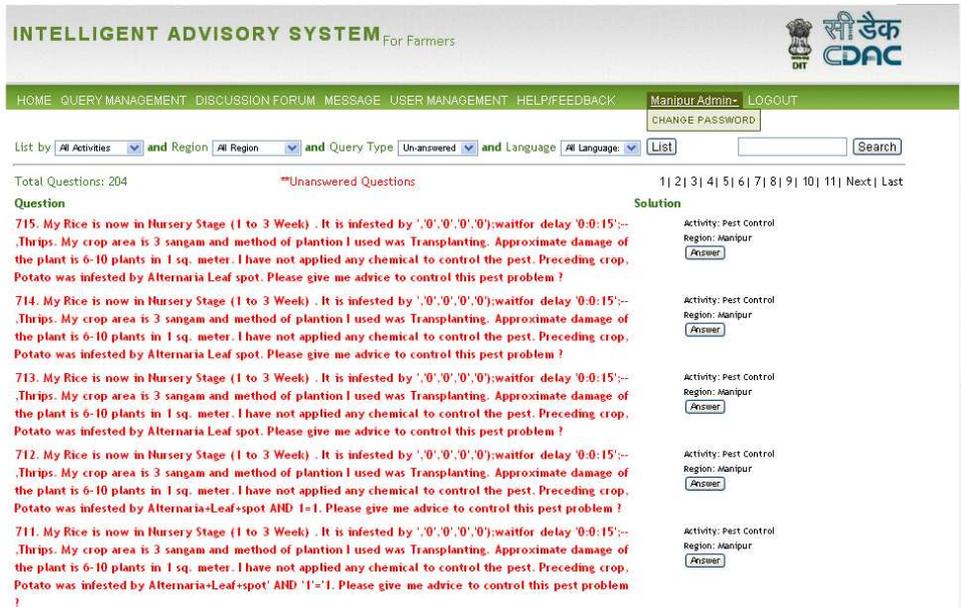


Fig. 3.6

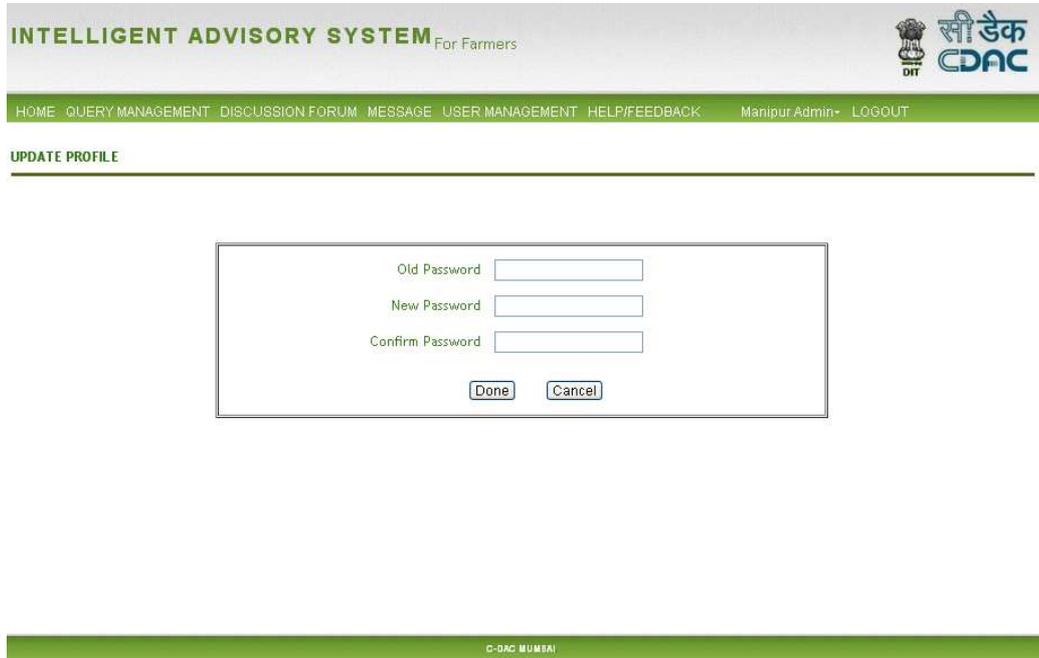


Fig.3.7

### 1.4.3. Update Profile

Experts and Farmers have option to update their profile.

Follow the following steps to update the profile.

- Log on to IASF.
- Take the mouse on your name on the top and it will show update profile option as shown in fig.3.8.
- Click on the option which opens a new window as shown in the figure 3.9.
- Once you have entered information into the fields you can click on save to have the profile information updated.
- You can click on cancel if you don't want to update anything, which takes you back to home page.



Fig 3.8

**INTELLIGENT ADVISORY SYSTEM** For Farmers 

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT HELP/FEEDBACK Manipuri Farmer - LOGOUT

**UPDATE PROFILE**

Email Id	<input type="text" value="ranyeng@gmail.com"/>
Qualification	<input type="text" value="MCA"/>
Contact No.	<input type="text" value="0000000000"/> (Only digit numbers [0-9] can enter)
<input type="button" value="Save"/> <input type="button" value="Cancel"/>	

Fig. 3.9

### 1.5. Change Region And Language

A User has option to change his region and language.

Follow the following steps to change region and language.

- Log on to IASF.
- Select a region from the dropdown menu and click on change button appearing on right side.
- Select a language from the dropdown menu and click on change button appearing on right of it.
- The same is shown in following figure 3.10

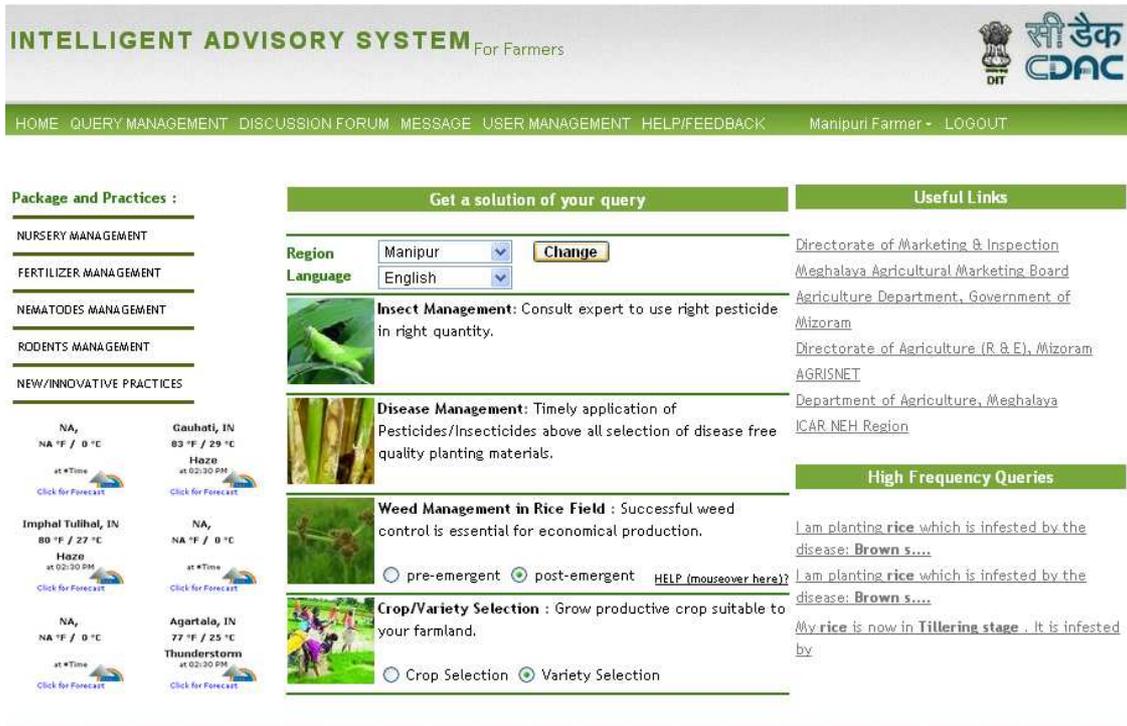


Fig 3.10

## 1.6. Ask a query

### 1.6.1. Insect Management

A user can ask a query related to insect problems using **Insect Management**. Follow the following steps to ask a query.

- a. Log on to IASF
- b. Click on **Insect Management** from IASF home (Figure 3.2). **Insect Management** user interface will be opened as shown in Figure 3.11.



**Figure 3.11 Insect selection page**

- c. For making a query follow the steps:
  - i. Select crop from the Crop field.
  - ii. Select stage of your crop from the Select Stage field. When you select a stage, list of suggested insects which frequently infested during the selected stage is displayed as shown in figure 3.12.
  - iii. Select the insect from the list. Click on the insect image to enlarge it. If you can not see the insect name in the suggested list, click on **Not in the above list**. If still insect name is not listed in the list, input name of the insect in the given text box.
  - iv. Click on **Continue**. A new Insect Management question page is opened as shown in Figure 3.13.
  - v. Provide your answer to all the questions if require.
  - vi. Click on Submit **button**.

System displays solution of your query if exist, otherwise displays a message indicating that your question has been sent to concerned expert as shown in Figure 3.14.

**INTELLIGENT ADVISORY SYSTEM** For Farmers

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT HELP/FEEDBACK Welcome admin LOGOUT

INSECT MANAGEMENT

Q1. Select Crop  Q2. Select stage of the crop

Q3. Select the Insect from below: (Click on the picture to enlarge)

<input type="checkbox"/>	Thrips				1) Egg: The egg is very tiny. A single egg is 0.25 mm long and 0.1 mm wide. It is hyaline when freshly laid and turns pale yellow toward maturation. 2) Larva: Neonate larvae are colorless.
<input type="checkbox"/>	Stem Borer				Symptoms: 1) Deadhearts or dead tiller that can be easily pulled from the base during the vegetative stages 2) Whiteheads during reproductive stage where the emerging panicles are whitish and unfilled or empty 3) Tiny holes on the stems and tillers 4) Frass or fecal
<input type="checkbox"/>	Green Leaf Hopper				Symptoms: * Transmits virus diseases such as tungro, yellow dwarf, yellow-orange leaf, and transitory yellowing * Plant stunted and reduced vigor

IF YOU CAN NOT SEE THE INSECT IN THE ABOVE LIST, PLEASE ENTER:

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**Figure 3.12 Insect selection page**

**INTELLIGENT ADVISORY SYSTEM** For Farmers

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT HELP/FEEDBACK Welcome admin LOGOUT

INSECT MANAGEMENT : Selected insects :Gall Midge

1. how much area is planted under the given crop?  
 Sangam

2. Method of planting rice?  
 Direct Sowing/ Broadcasting  
 Transplanting

3. Approximate damaged by the pest/insect? (Infected no. of plant out of 10 plants)

4. Have you applied any Chemical?  
 Yes  
 No

5. If Yes,outcome of the chemical applied?  
 Improving  
 Not Improving

6. If Yes, applied chemical name?  
 If Others, enter

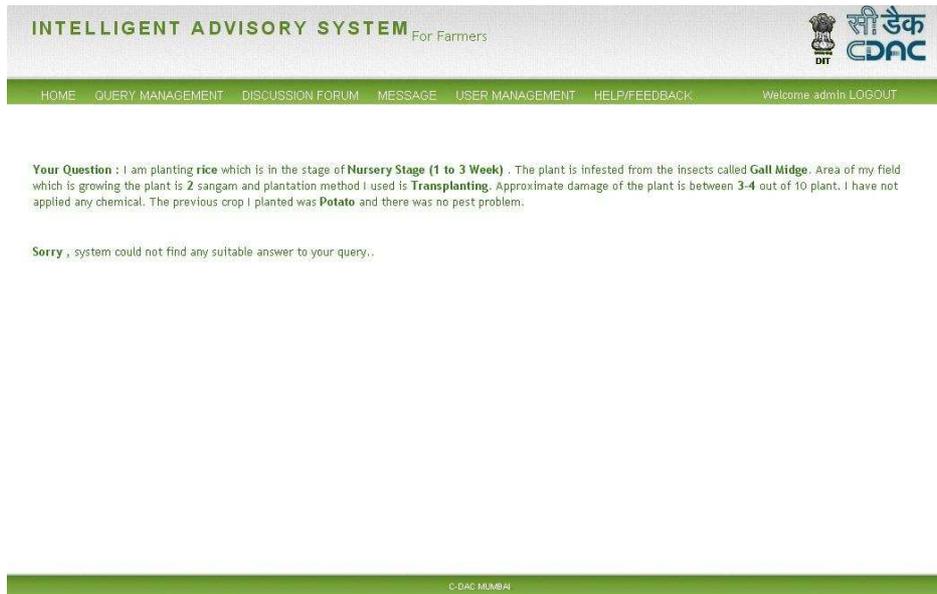
7. Specify the name of previously planted crop?

8. Any pest or disease affected in previous crop?  
 Yes  
 No

9. Are you doing rice-cum-fish farming ?  
 Yes  
 No

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**Figure 3.13 Insect Management question page**

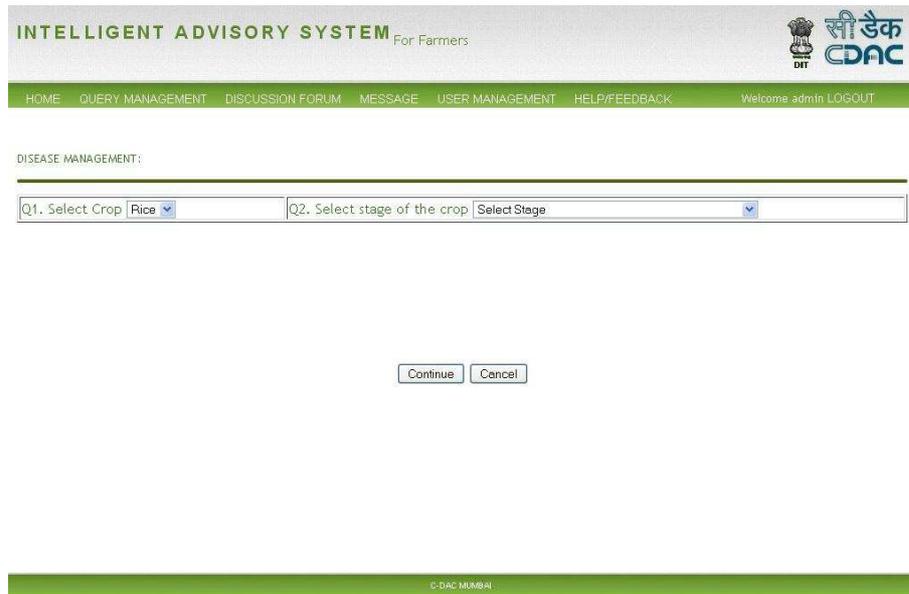


**Figure 3.14 Solution page of Insect Management**

## 1.6.2. Disease Management

**Disease Management** is used to post a query related to disease problem of a crop. Follow the following steps to ask a query.

- a. Log on to IASF
- b. Click on **Disease Management** from IASF home (Figure 3.2). **Disease Management** user interface will be opened as shown in Figure 3.15.



**Figure 3.15 Disease Management page**

- c. For making a query follow the steps:
- i. Select crop from the Crop field.
  - ii. Select stage of your crop from the Select Stage field. When you select a stage, list of suggested diseases which frequently infested during the selected stage is displayed as shown in figure 3.16.
  - iii. Select the disease from the list. Click on the disease image to enlarge it. If you cannot see the disease name in the suggested list, click on **Not in the above list**. If still disease name is not listed in the list, input name of the disease in the given text box.
  - iv. Click on **Continue**. A new Disease Management question page is opened as shown in Figure 3.17.
  - v. Provide your answer to all the questions if require.
  - vi. Click on Submit **button**.

System displays solution of your query if exist, otherwise displays a message indicating that your question has been sent to concerned expert as shown in Figure 3.18.

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT HELP/FEEDBACK Welcome admin LOGOUT

DISEASE MANAGEMENT:

Q1. Select Crop

Q2. Select stage of the crop

Q3. Select the disease from below: (Click on the picture to enlarge)

<input type="checkbox"/>	Brown spots				
<input type="checkbox"/>	Blast				
<input type="checkbox"/>	Stem Rot				

Not in the above list >>

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Figure 3.16 Disease selection page

INTELLIGENT ADVISORY SYSTEM For Farmers

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT HELP/FEEDBACK Welcome admin LOGOUT

DISEASE MANAGEMENT: Selected disease :Blast

Q1. Total Area Planted?

Q2. Method of Rice Plantation?  
 Direct Sowing/ Broadcasting  
 Transplanting

Q3. Approximate damaged by the pest/insect? (infected no. of plant out of 10 plants)

Q4. Have you applied any chemical to control the disease?  
 Yes  
 No

Q5. If applied, any changes  
 Improving  
 Not Improving

Q6. Chemical name you applied?  
 If Others, enter

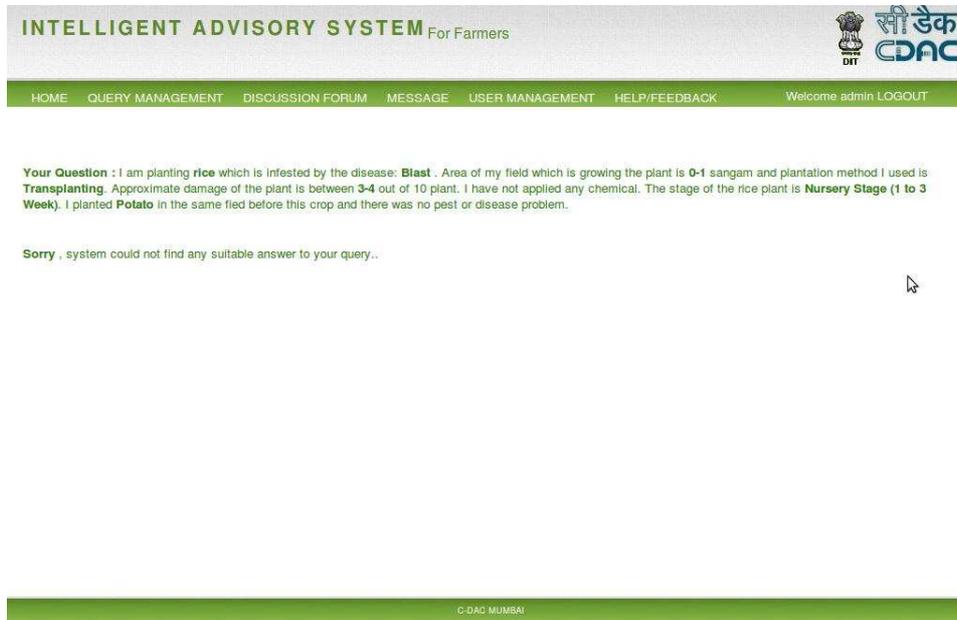
Q7. Specify the name of previously planted crop?

Q8. If any pest or disease affected in previous crop?

Q9. Are you doing rice-cum-fish farming ?  
 Yes  
 No

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Figure 3.17 Disease Management question page



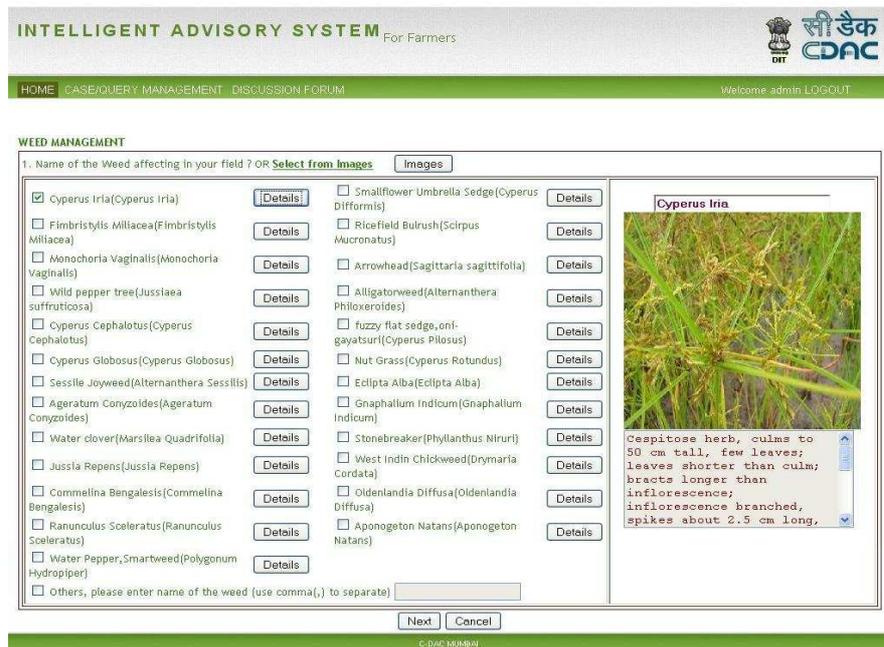
The screenshot shows the 'INTELLIGENT ADVISORY SYSTEM For Farmers' interface. At the top right, there is a logo for 'सी डैक CDAC' with 'DIT' underneath. Below the header is a navigation menu with links: HOME, QUERY MANAGEMENT, DISCUSSION FORUM, MESSAGE, USER MANAGEMENT, HELP/FEEDBACK, and Welcome admin LOGOUT. The main content area displays a user's question: 'Your Question : I am planting rice which is infested by the disease: Blast . Area of my field which is growing the plant is 0-1 sangam and plantation method I used is Transplanting. Approximate damage of the plant is between 3-4 out of 10 plant. I have not applied any chemical. The stage of the rice plant is Nursery Stage (1 to 3 Week). I planted Potato in the same field before this crop and there was no pest or disease problem.' Below the question, the system response is: 'Sorry , system could not find any suitable answer to your query..'. At the bottom of the page, there is a green bar with the text '©-DAC MUMBAI'.

**Figure 3.18 Solution page of Disease Management**

### 1.6.3. Weed Management

**Weed Management** is used to post a query related to weed problem of a crop. Follow the following steps to ask a query.

- a. Log on to IASF
- b. Click on **Weed Management in Rice Field** from IASF home (Figure 3.2). **Weed Management** user interface will be opened as shown in Figure 3.19.



**Figure 3.19 Weed selection page**

- c. For making a query follow the steps:
  - i. Select weed from the list. When you select a weed, the image of the weed is shown on the right side window. The detail description about the weed is also displayed when you click on **Details** button. If you want to select weed(s) from image, click on **Images** button of Select From Images (Figure 3.20). If your weed is not found in the list, input name of the weed in the given text box.
  - ii. Click on **Next**. A new Weed Management question page is opened as shown in Figure 3.21.
  - iii. Provide your answer to all the questions if require.
  - iv. Click on **Submit button**.

System displays solution of your query if exist, otherwise displays a message indicating that your question has been sent to concerned expert.

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HOME CASE/QUERY MANAGEMENT DISCUSSION FORUM Welcome admin LOGOUT

**WEED MANAGEMENT: Select from following Images:**

<input type="checkbox"/>  Cyperus Iria(Cyperus Iria)	<input type="checkbox"/>  Smallflower Umbrella Sedge(Cyperus Difformis)	<input type="checkbox"/>  Fimbristylis Miliacea(Fimbristylis Miliacea)	<input type="checkbox"/>  Ricefield Bulrush(Scirpus Mucronatus)
<input type="checkbox"/>  Monochoria Vaginalis(Monochoria Vaginalis)	<input type="checkbox"/>  Arrowhead(Sagittaria sagittifolia)	<input type="checkbox"/>  Wild pepper tree(Jussiaea suffruticosa)	<input type="checkbox"/>  Alligatorweed(Alternanthera Philoxeroides)
<input type="checkbox"/>  Yellow/Green foxtail(Setaria Glauca)	<input type="checkbox"/>  Torpedo(Panicum Repens)	<input type="checkbox"/>  Paspalum Cognatum(Paspalum Cognatum)	<input type="checkbox"/>  Polygonum Chinense(Polygonum Chinense)
<input type="checkbox"/>  Water Pepper, Smartweed(Polygonum Hydropper)			

Others, please enter name of the weed (use comma[,] to separate for more than 1 weeds)

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**Figure 3.20 Weed Selection from image**

**INTELLIGENT ADVISORY SYSTEM** For Farmers

HOME CASE/QUERY MANAGEMENT DISCUSSION FORUM Welcome admin LOGOUT

**WEED MANAGEMENT: Selected weeds: Cyperus Iria**

<p>1. Weed Type Dominating <input type="button" value="Help!"/></p> <p><input type="radio"/> Broad Leaf</p> <p><input checked="" type="radio"/> Leaf(Sedges &amp; Grasses)</p> <p><input type="radio"/> 50-50</p> <p>2. Weed Population (approximate)</p> <p><input checked="" type="radio"/> High</p> <p><input type="radio"/> Medium</p> <p><input type="radio"/> Low</p> <p>3. Stage of the Crop</p> <p><input checked="" type="radio"/> Before Panicle Initiation</p> <p><input type="radio"/> During or after Panicle Initiation</p>	<p>4. What is the Level of the Water in your field</p> <p><input checked="" type="radio"/> Around 5 cm</p> <p><input type="radio"/> Less Water</p> <p><input type="radio"/> Above 10 cm</p> <p>5. Stage of the Weed?</p> <p><input checked="" type="checkbox"/> Germinating Stage</p> <p><input type="radio"/> 3 to 4 leaf stage or after</p>
---	---

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**Figure 3.21 Weed Management question page**

### 1.7. Query Management

The Query Management is used to view existing case/query and update of existing case/query. A farmer user is allowed only to list and search query.

#### 1.7.1. List Query

Queries can be listed using various parameters; Activity type, Region, Query Type, and Language.

- a. Log on to IASF
- b. Click on **Query Management** from IASF home (Figure 3.2). **Query Management** user interface will be opened as shown in Figure 3.22.

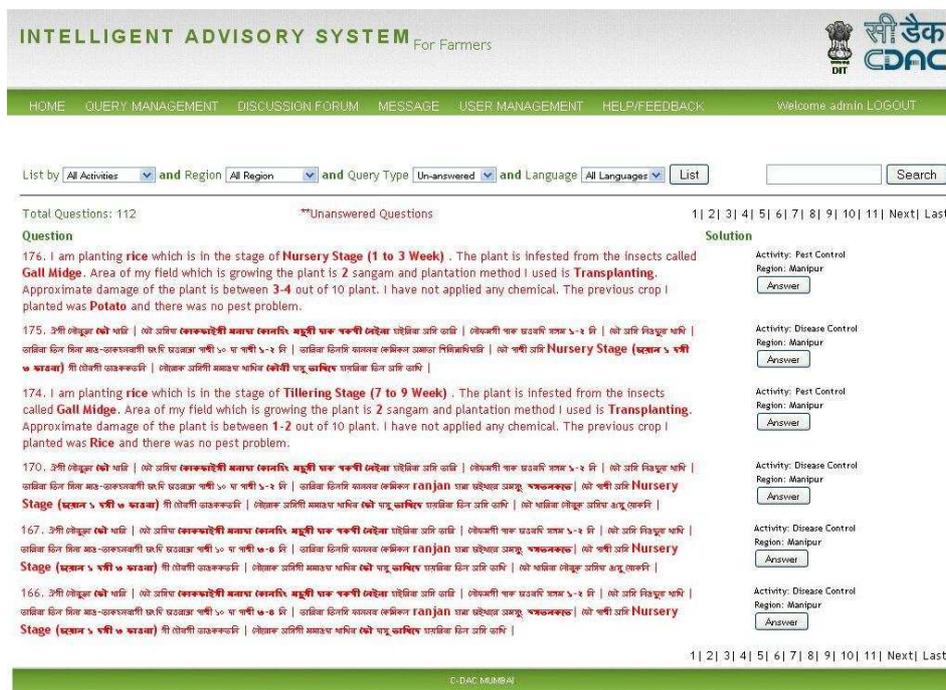


Figure 3.22 List Query

- c. Select the type of the query to be listed.
  - a. Activity Types
    - i. All Activities: Queries are listed for all farming activities including your own queries and others' queries.
    - ii. Pest Control: Queries only for Pest Management is listed.
    - iii. Weed Control: Queries only for Weed Management is listed.
    - iv. Disease Control: Queries only for Disease Management is listed.
    - v. Crop Selection: Queries only for Crop Selection is listed.
    - vi. My Queries: Your own queries for all the farming activities are listed.

- b. Region: All the queries for the selected region are listed.
- c. Query Type:
  - i. Validated: All the queries which answer is validated by authorized experts are listed.
  - ii. Suggested: All the queries which its answer is suggested by IASF are listed.
  - iii. Invalid: All the queries which are invalidated by authorized experts are listed.
  - iv. Un-answered: All the queries which are not answered by IASF or authorized experts are listed. Un-answered queries are displayed in red font color.
- d. Language: All the queries of the selected language are listed.
- d. Click on **List** button

### 1.7.2. Search Query

Queries can be searched using search query functionality of IASF. Searching of query is performed on the query and its corresponding solution if exist.

Follow the following steps to search a query.

- a. Log on to IASF
- b. Click on **Query Management** from IASF home (Figure 3.2). **Query Management** user interface will be opened as shown in Figure 3.22.
- c. Enter the keyword to be searched in the search text box.
- d. Click on the **Search** button.

System displays all the queries which contain the keyword you entered.

### 1.7.3. Answer Query

Un-answered query of a farmer can be answered using the Answer Query functionality given by IASF. To answer an un-answered query the expert should be of the same region and he must have the role “Answer Query” which is assigned to him by concerned administrator when he registers.

Follow the following steps to search a query.

- a. Log on to IASF
- b. Click on **Query Management** from IASF home (Figure 3.2). **Query Management** user interface will be opened as shown in Figure 3.22.
- c. List all the un-answered queries as given in Section 1.7.1 then click on the **Answer** button given on the right side of the un-answered query to be answered. A new window is popped up as given in Figure 3.23.

- d. Enter the answer of the query in the **New Solution** text box. You can also use **Virtual Manipur Keyboard** or **Rupantar**.
- e. Click on **Save** button. You will be asked for confirmation. After confirmation, the query will be disappeared from the Un-answered query list.

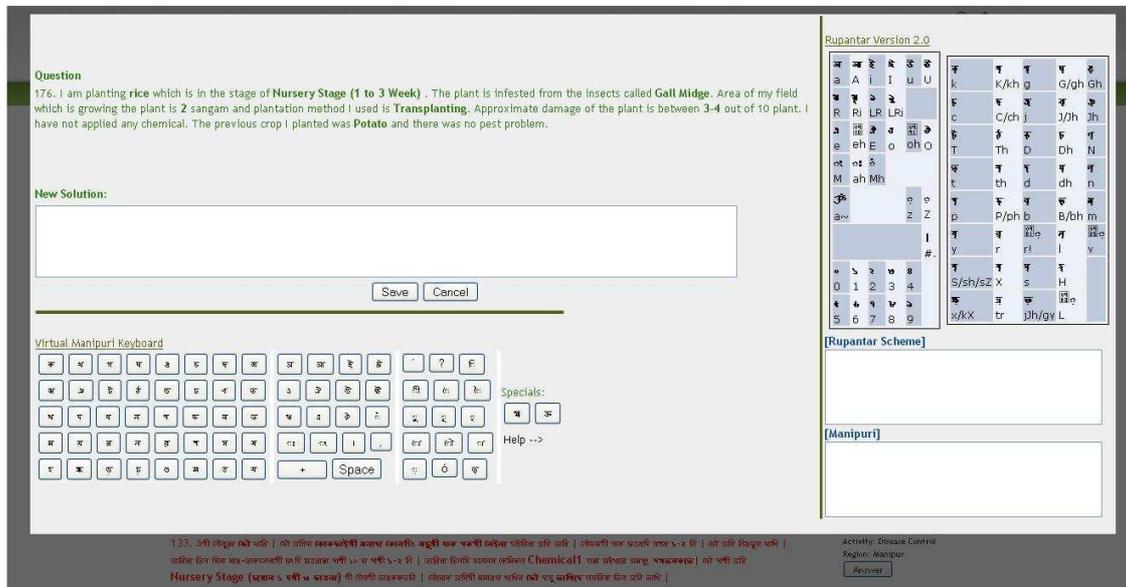


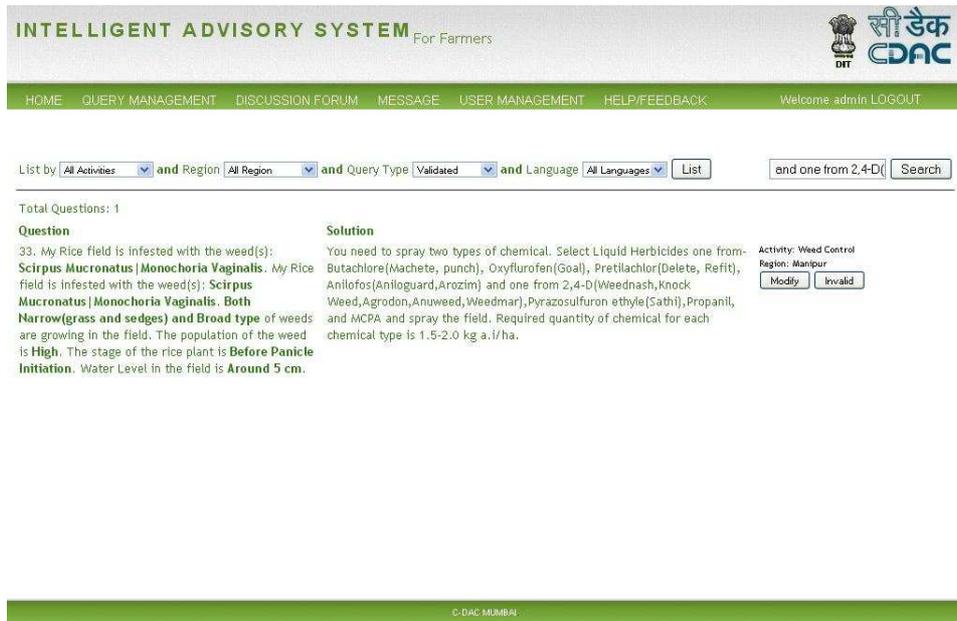
Figure 3.23

#### 1.7.4. Modify Query

The answer of a query can be modified using the Modify Query functionality given by IASF. An expert can modify only those query which is answered or validated (system suggested query) by him.

Follow the following steps to modify a query.

- a. Log on to IASF
- b. Click on **Query Management** from IASF home (Figure 3.2). **Query Management** user interface will be opened as shown in Figure 3.22.
- c. Use **List Query** given in Section 1.7.1 to select the query to be modified. Click on **Modify** button given on the right side of the query to be modified. A new window is popped up as given in Figure 3.24.
- d. Enter the new answer of the query in the **New Solution** text box. You can also use **Virtual Manipur Keyboard** or **Rupantar**.
- e. Click on **Save** button. You will be asked for confirmation.



**INTELLIGENT ADVISORY SYSTEM** For Farmers

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT HELP/FEEDBACK Welcome: admin LOGOUT

List by  and Region  and Query Type  and Language   and one from 2,4-D

Total Questions: 1

Question	Solution	Activity: Weed Control Region: Manipur
33. My Rice field is infested with the weed(s): <b>Scirpus Mucronatus   Monochoria Vaginalis</b> . My Rice field is infested with the weed(s): <b>Scirpus Mucronatus   Monochoria Vaginalis</b> . <b>Both Narrow (grass and sedges) and Broad type</b> of weeds are growing in the field. The population of the weed is <b>High</b> . The stage of the rice plant is <b>Before Panicle Initiation</b> . Water Level in the field is <b>Around 5 cm</b> .	You need to spray two types of chemical. Select Liquid Herbicides one from- Butachlore(Machete, punch), Oxyflurofen(Goal), Pretilachlor(Delete, Refit), Anilofos(Aniloguard,Arozim) and one from 2,4-D (Weednash, Knock Weed, Agrodon, Anuweed, Weedmar), Pyrazosulfuron ethyle(Sathi), Propanil, and MCPA and spray the field. Required quantity of chemical for each chemical type is 1.5-2.0 kg a./ha.	<input type="button" value="Modify"/> <input type="button" value="Invalid"/>

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**Figure 3.24 Modify Query**

### 1.7.5. Invalidate Query

A query which its solution is outdated or is not true can be invalidated using the Invalid Query functionality given by IASF. Expert can invalidate only those queries which is answered or validated (system suggested query) by him.

Follow the following steps to invalid a query.

- Log on to IASF
- Click on **Query Management** from IASF home (Figure 3.2). **Query Management** user interface will be opened as shown in Figure 3.22.
- Use List Query given in Section 1.7.1 to select the query to be invalidated. Click on **Invalid** button given on the right side of the query to be invalidated.
- Click on **Ok** button when system asks for your confirmation.

### 1.7.6. Validate Query

An invalid query can be validated again using this functionality. An expert can validate only those queries which are answered or validated (system suggested query) by him

Follow the following steps to validate a query.

- Log on to IASF
- Click on **Query Management** from IASF home (Figure 3.2). **Query Management** user interface will be opened as shown in Figure 3.22.
- Use List Query given in Section 1.7.1 to select the query to be validated. Click on **Valid** button given on the right side of the query.

Format Template Number: **SDG\_F\_18**; Version 01; Effective: October 01, 2007

R=Research, A=Application Development, C=Content Development/Evolutionary, D=Deployment & Maintenance, N= Consultancy

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- d. Click on **Ok** button when system asks for your confirmation.

### 1.7.7. Suggest Query

When a query is not answered by the expert of that region, any expert from other regions can give suggestion to the query which has to be approved by expert of the same region. Once the suggestion is approved, the answer/suggestion will be sent to the farmer who asked the query.

Follow the following steps to suggest a query.

- a. Log on to IASF.
- b. Click on **Query Management** from IASF home (Figure 3.2). **Query Management** user interface will be opened as shown in figure 3.22.
- c. Use List Query given in section 1.7.1 to select the un-answered queries of particular region. Click on suggest query button on the right side of the query.
- d. That opens a new page where in the New Solution box you can answer the query.

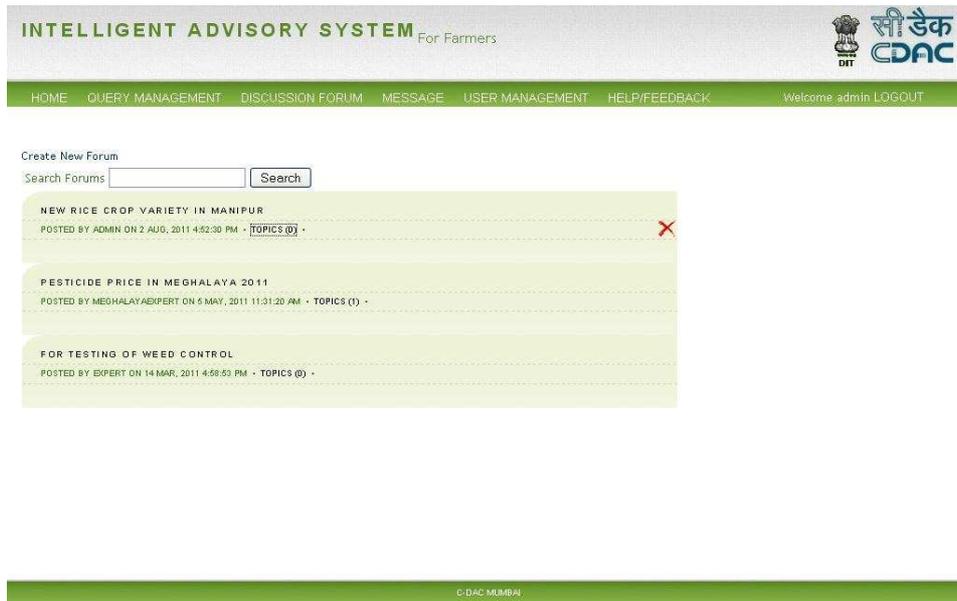
## 1.8. Discussion Forum

Through Discussion Forum, experts, student, and farmer can share their knowledge. An existing topic can be seen and can be commented by any user of IASF.

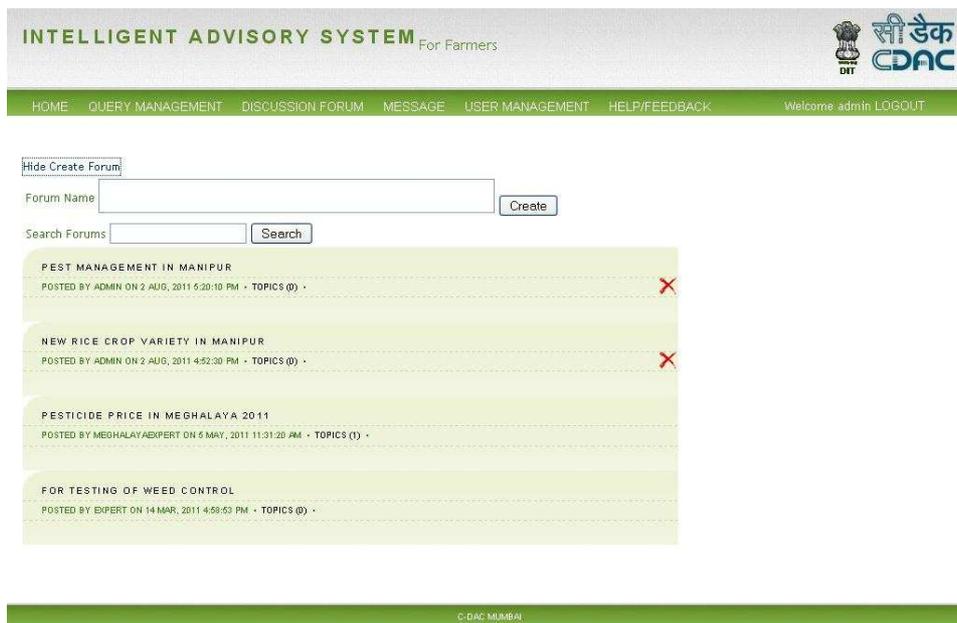
### 1.8.1. Create Forum

A user having “Add Forum” role can create a new forum. The “Add Forum” role is assigned to him by concerned administrator. Follow the following steps to create a new forum.

- a. Log on to IASF
- b. Click on **Discussion Forum** from IASF home (Figure 3.2). **Discussion Forum** user interface will be opened as shown in Figure 3.25.
- c. Click on **Create New Forum** link. A new Create New forum user interface is opened given in Figure 3.26.
- d. Enter the name of the forum to be created. Then click on **Create** button.



**Figure 3.25 Discussion Forum**



**Figure 3.26 Create Forum user interface**

### 1.8.2. Create Topic

A user having “Create Topic” role can create a new topic of a given forum. The “Create Topic” role is assigned to him by concerned administrator. Follow the following steps to create a new topic.

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- b. Log on to IASF
- c. Click on **Discussion Forum** from IASF home (Figure 3.2). **Discussion Forum** user interface will be opened as shown in Figure 3.25.
- d. Select a forum by clicking on the TOPICS link of the forum. The new topic will be created under the selected forum.
- e. Click on **Create New Topic** link. A new Create New Topic user interface is opened.
- f. Enter the topic name. Then click on **Create** button.

### 1.8.3. Search Forums

Follow the following steps to search a forum.

- a. Log on to IASF
- b. Click on **Discussion Forum** from IASF home (Figure 3.2). **Discussion Forum** user interface will be opened as shown in Figure 3.25.
- c. Enter the keyword in the Search Forums text box then click on **Search** button.

### 1.8.4. Delete Forums

A forum can be deleted only by the owner of the forum who created the forum. Follow the following steps to delete a forum.

- a. Log on to IASF
- b. Click on **Discussion Forum** from IASF home (Figure 3.2). **Discussion Forum** user interface will be opened as shown in Figure 3.25.
- c. A delete button (in red cross mark) is displayed on the right side of the forum if the user is permitted to delete the forum.
- d. Click on Delete button. User will be asked for confirmation.

## 1.9. Message

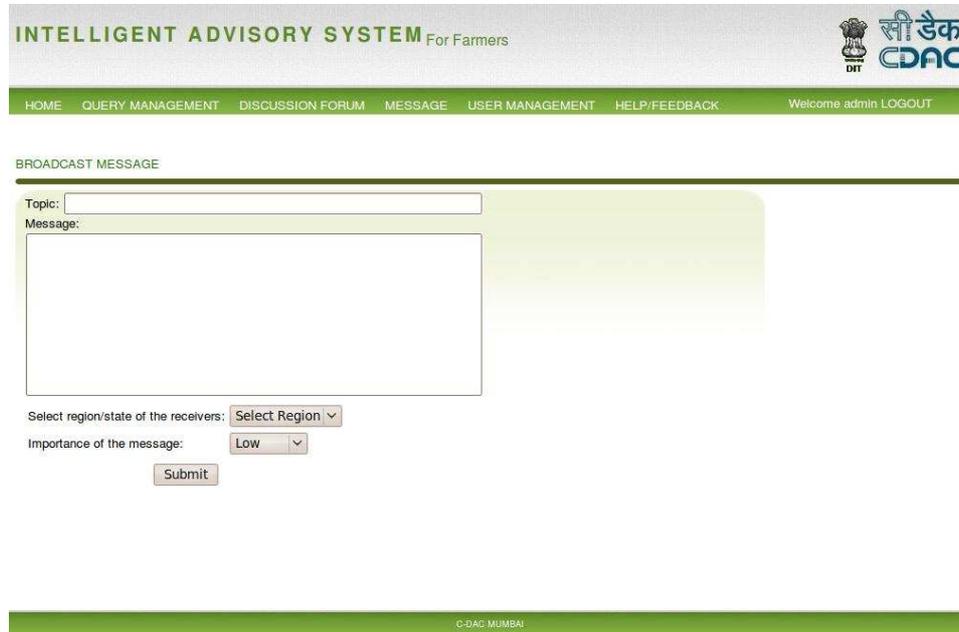
Experts can send alerts and important information to farmers using the messaging functionality given by IASF.

### 1.9.1. Broadcast Message

Follow the following steps to broadcast a message.

- a. Log on to IASF
- b. Click on **Broadcast Message (Message -> Broadcast Message)** from IASF home. **Broadcast Message** user interface will be opened as shown in Figure 3.27.
- c. Enter the topic of the message in the **Topic** field.
- d. Type the message in the **Message** field.
- e. Select the region/state of the message receivers from Select Region field.

- f. Select the importance of the message from the Message Important field.
- g. Click on **Submit** button.



INTELLIGENT ADVISORY SYSTEM For Farmers

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT HELP/FEEDBACK Welcome admin LOGOUT

BROADCAST MESSAGE

Topic:

Message:

Select region/state of the receivers:

Importance of the message:

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**Figure 3.27 Broadcast Message**

### 1.9.2. View Message

Follow the following steps to view a broadcast message.

- a. Log on to IASF
- b. Click on **View Message (Message -> View Message)** from IASF home. **View Message** user interface will be opened as shown in Figure 3.28.
- c. Click on the message you want to view. The message is expanded.

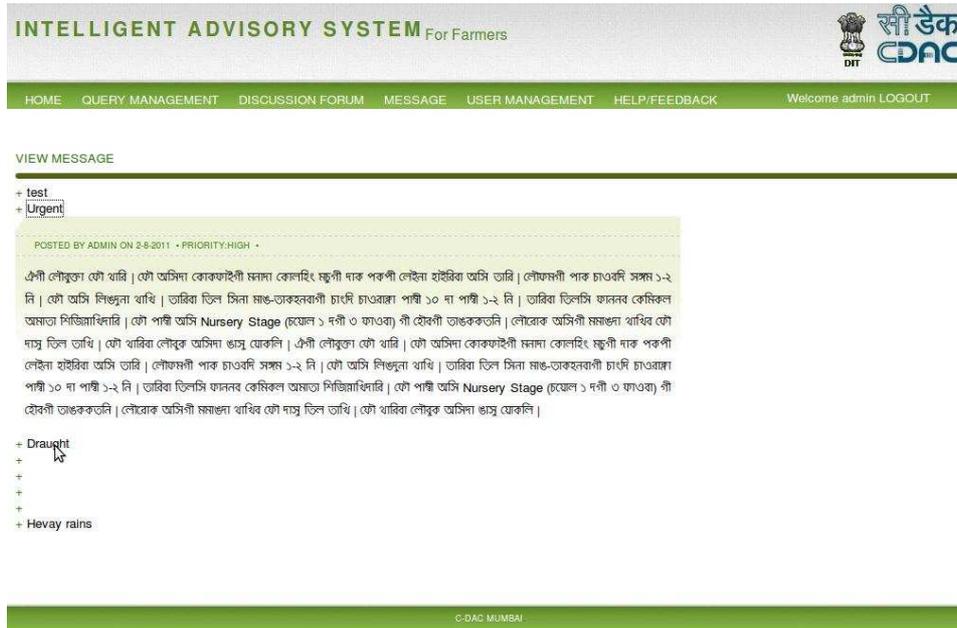


Figure 3.28

### 1.10. Help/Feedback

User can download **User Manual** for accessing various options in the IASF.

Follow the following steps to download user manual.

- Log on to IASF.
- Under the Help/Feedback option there is option to download user manual as shown in fig. 3.29
- Click on it to download the User Manual.

User can also provide **Feedback** about the IASF system.

Follow the following steps to provide Feedback.

- Log on to IASF.
- Under the Help/Feedback option there is option to Feedback as shown in fig. 3.29
- Click on feedback and it opens a new window as shown in fig 3.30, where you can Enter the topic and the feedback suggestion.
- Click on submit once you are done.

**INTELLIGENT ADVISORY SYSTEM** For Farmers

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT **HELP/FEEDBACK** Manipur Admin- LOGOUT

DOWNLOAD USER MANNUAL  
 FEEDBACK

List by  and Region  and Query Type  and L

Total Questions: 204 \*\*Unanswered Questions 1| 2| 3| 4| 5| 6| 7| 8| 9| 10| 11| Next| Last

Question	Solution
715. My Rice is now in Nursery Stage (1 to 3 Week) . It is infested by ',0','0','0','0');waitfor delay '0:0:15';-- .Thrips. My crop area is 3 sangam and method of plantation I used was Transplanting. Approximate damage of the plant is 6-10 plants in 1 sq. meter. I have not applied any chemical to control the pest. Preceding crop, Potato was infested by Alternaria Leaf spot. Please give me advice to control this pest problem ?	Activity: Pest Control Region: Manipur <input type="button" value="Answer"/>
714. My Rice is now in Nursery Stage (1 to 3 Week) . It is infested by ',0','0','0','0');waitfor delay '0:0:15';-- .Thrips. My crop area is 3 sangam and method of plantation I used was Transplanting. Approximate damage of the plant is 6-10 plants in 1 sq. meter. I have not applied any chemical to control the pest. Preceding crop, Potato was infested by Alternaria Leaf spot. Please give me advice to control this pest problem ?	Activity: Pest Control Region: Manipur <input type="button" value="Answer"/>
713. My Rice is now in Nursery Stage (1 to 3 Week) . It is infested by ',0','0','0','0');waitfor delay '0:0:15';-- .Thrips. My crop area is 3 sangam and method of plantation I used was Transplanting. Approximate damage of the plant is 6-10 plants in 1 sq. meter. I have not applied any chemical to control the pest. Preceding crop, Potato was infested by Alternaria Leaf spot. Please give me advice to control this pest problem ?	Activity: Pest Control Region: Manipur <input type="button" value="Answer"/>
712. My Rice is now in Nursery Stage (1 to 3 Week) . It is infested by ',0','0','0','0');waitfor delay '0:0:15';-- .Thrips. My crop area is 3 sangam and method of plantation I used was Transplanting. Approximate damage of the plant is 6-10 plants in 1 sq. meter. I have not applied any chemical to control the pest. Preceding crop, Potato was infested by Alternaria+Leaf-spot AND I=1. Please give me advice to control this pest problem ?	Activity: Pest Control Region: Manipur <input type="button" value="Answer"/>
711. My Rice is now in Nursery Stage (1 to 3 Week) . It is infested by ',0','0','0','0');waitfor delay '0:0:15';-- .Thrips. My crop area is 3 sangam and method of plantation I used was Transplanting. Approximate damage of the plant is 6-10 plants in 1 sq. meter. I have not applied any chemical to control the pest. Preceding crop,	Activity: Pest Control Region: Manipur <input type="button" value="Answer"/>

Fig. 3.29

**INTELLIGENT ADVISORY SYSTEM** For Farmers

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT **HELP/FEEDBACK** Manipur Admin- LOGOUT

ADD FEEDBACK

Topic:  (maximum 60 characters)

Message:

fig 3.30

## 1.11. User Management

### 1.11.1. Approve/Reject Expert Request

An Administrator of a region can view the list of all Experts as well as Farmers and Students. When a new Expert joins IASF, he needs to be approved by Administrator of that region. Administrator can approve an Expert under User Management option.

Follow the following steps to approve an Expert.

- Log on to IASF.
- Take the mouse on User management option. And you will see the following options as shown in the fig. 3.29.
- Click on APPROVE EXPERT to enter a new page.
- Here you will see the list of Experts waiting for approval as shown in fig 3.30
- Click on approve on the right side of experts name as shown in fig. 3.30 to approve a particular expert.
- You can also reject an approval request of Expert by clicking on reject.

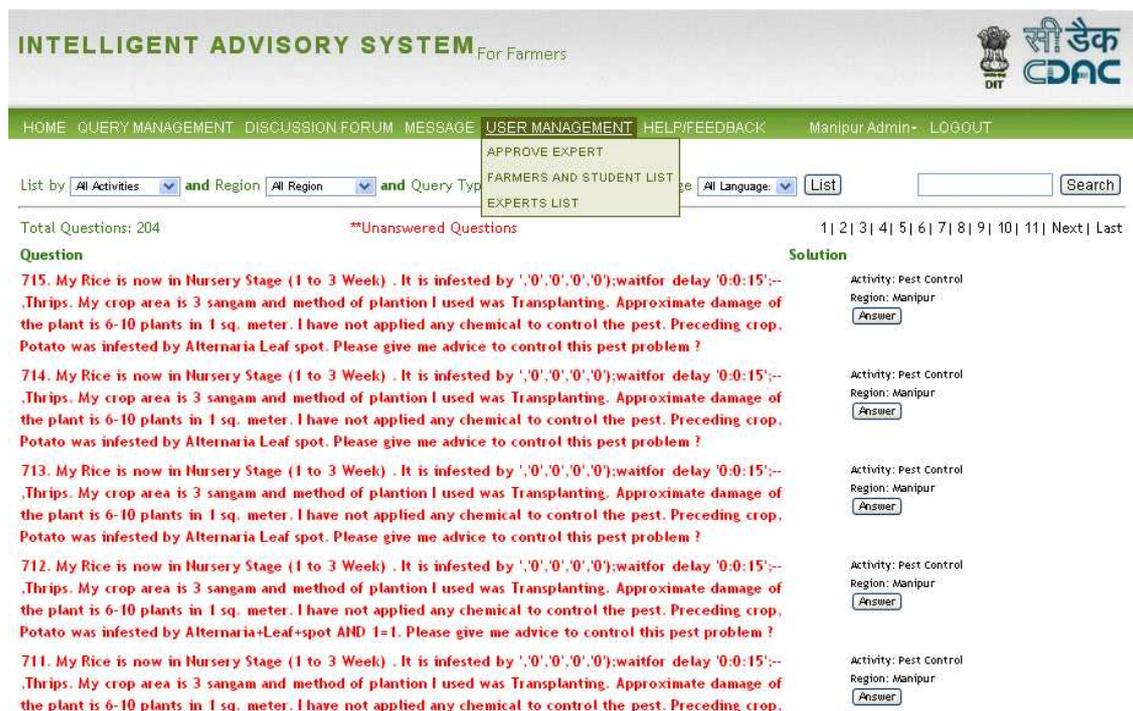


Fig 3.29

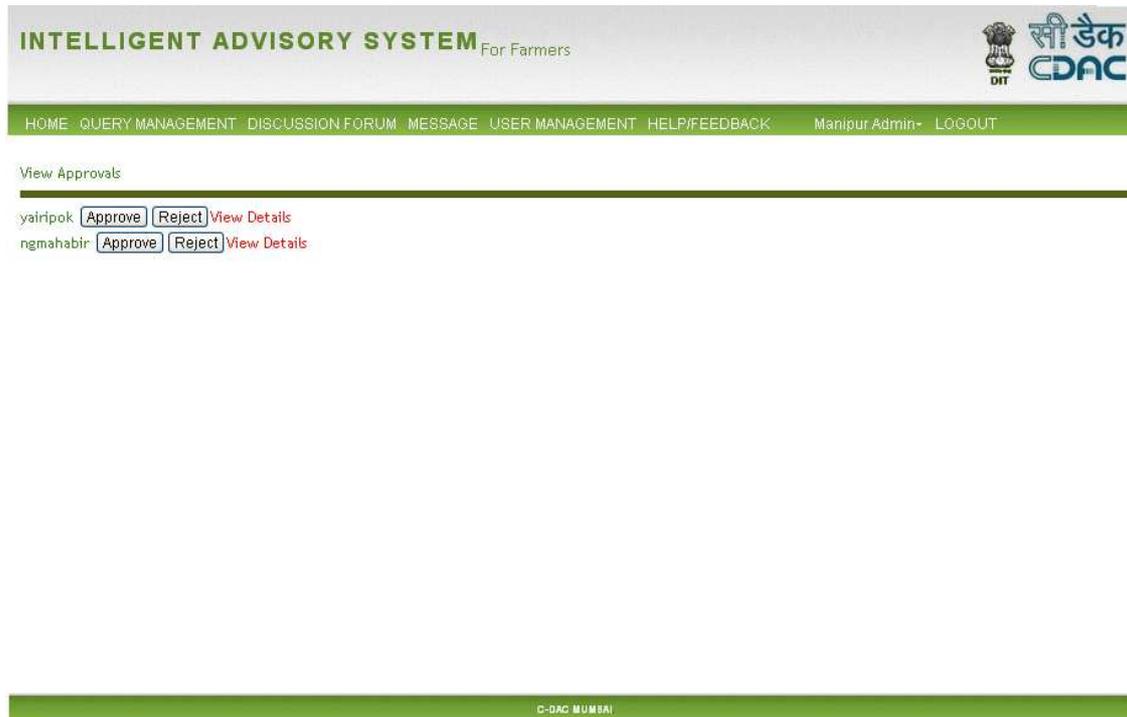


Fig 3.30

### 1.11.2. Add Expert

An administrator of a region can also add experts of his region. Follow the following steps to add an expert.

- Log on to IASF.
- Take mouse over the **User management** and it will pop up an option **ADD EXPERT**. Click on the option.
- It will open a new window as shown in fig. 3.31
- Enter the values of the fields, name, email id, qualification, contact number, specialised farming activity and user id.
- You can check availability of your user id by clicking on **Check Availability** button.
- Click on **Add Expert Account**.

**INTELLIGENT ADVISORY SYSTEM** For Farmers

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT HELP/FEEDBACK Developer \* LOGOUT

Add Expert :

Full Name \*

Email Id \*

Qualification \*

Contact No. \*

(Only digit numbers [0-9] can enter)

Specialised Farming activity(s)\*

Insect Control  Weed Control

Disease Control  Crop Selection

Fertilizer Management

User Id \*

(Maximum length is 15 characters)

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Fig 3.31

### 1.11.3. Expert List

Experts' list can be seen by clicking on the **Experts List** option from **User Management** menu given at Fig. 3.29. A new window showing expert list will be opened as shown in Fig 3.32.

**INTELLIGENT ADVISORY SYSTEM** For Farmers

HOME QUERY MANAGEMENT DISCUSSION FORUM MESSAGE USER MANAGEMENT HELP/FEEDBACK Manipur Admin- LOGOUT

Search In Current Page

1

Name	Email ID	Qualification	RegionName
Kh Birmola Devi	abc@cdacmumbai.in	MSc	Manipur
Kh Ibohah Singh	abc@cdacmumbai.in	MSc	Manipur
L Nabachandra	abc@cdacmumbai.in	PhD	Manipur
Manipur Developer	abc@cdacmumbai.in		Manipur
Manipur Expert	abc@cdacmumbai.in	MSc	Manipur
meghalayaexpert	abc@cdacmumbai.in	Post Graduation	Meghalaya
Mizoram Developer	abc@cdacmumbai.in	Post Graduation	Mizoram
M Kunjaraj	abc@cdacmumbai.in	MSc	Manipur
Nimaichand kh	abc@cdacmumbai.in	M.sc.Ento.	Manipur
Th Aruna Devi	abc@cdacmumbai.in	MSc	Manipur
Tripura Developer	abc@cdacmumbai.in	Post Graduation	Tripura

CSV | Excel | XML | PDF | RTF

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Fig. 3.32

### 1.11.4. Expert List

An administrator or expert can list farmer and student users of IASF by clicking on **FARMERS AND STUDENTS LIST** option under **USER MANAGEMENT**. A new window is opened as shown in Fig. 3.33.



The screenshot shows the 'INTELLIGENT ADVISORY SYSTEM For Farmers' web interface. The navigation menu includes 'HOME', 'QUERY MANAGEMENT', 'DISCUSSION FORUM', 'MESSAGE', 'USER MANAGEMENT', 'HELP/FEEDBACK', 'Manipur Admin-', and 'LOGOUT'. The 'USER MANAGEMENT' menu is expanded, showing options for 'APPROVE EXPERT', 'FARMERS AND STUDENT LIST', and 'EXPERTS LIST'. The 'EXPERTS LIST' option is selected, displaying a table of user information.

Name	UserCode	Mobile No	Email ID	Qualification	RegionName
abc	test1177	9604276336	abc@asd.com		Manipur
alen	than1079	0000000000	abc@cdacmumbai.in		Manipur
angamhaokip	thin1097	0000000000	abc@cdacmumbai.in		Manipur
ARIBAM SUBHASHINI DEVI	Khon1166	0000000000	abc@cdacmumbai.in		Manipur
ashish mishra	CHY1147	0000000000	abc@cdacmumbai.in		Meghalaya
ashish mishra	Iren1142	0000000000	abc@cdacmumbai.in		Manipur
ashish mishra	Basi1162	0000000000	abc@cdacmumbai.in		Manipur
Assam Farmer	Bish1159	0000000000	abc@cdacmumbai.in		Manipur
basanta	Moir1086	0000000000	abc@cdacmumbai.in		Manipur
Bobo Th	Andr1066	0000000000	abc@cdacmumbai.in		Manipur
brajamohan	Moir1087	0000000000	abc@cdacmumbai.in		Manipur
brila	Thou1093	0000000000	abc@cdacmumbai.in		Manipur
budha	Khur1081	0000000000	abc@cdacmumbai.in		Manipur
budha	Khur1089	0000000000	abc@cdacmumbai.in		Manipur
canning s shabong	Law1130	0000000000	abc@cdacmumbai.in		Meghalaya
Chingtham Bishwanath	Papa1165	0000000000	abc@cdacmumbai.in		Manipur
haobam.ibotombil	Keir1100	0000000000	ansari.mohammedanwar1@gmail.com		Manipur
haroonmd	haou1092	0000000000	abc@cdacmumbai.in		Manipur
Heikrujam Bheiga	Bish1134	0000000000	abc@cdacmumbai.in		Manipur
Hemanta	Lang1131	0000000000	abc@cdacmumbai.in		Manipur
Hidam Kunjabihari	Thou1135	0000000000	abc@cdacmumbai.in		Manipur
Hidang Dinesh	wang1133	0000000000	abc@cdacmumbai.in		Manipur
Hijam Shyamjai	haou1132	0000000000	abc@cdacmumbai.in		Manipur
ib	Hara1057	0000000000	abc@cdacmumbai.in		Manipur
Ibobi hijam	Sawo1123	0000000000	abc@cdacmumbai.in		Manipur
Ibobi Hijam	Sawo1122	0000000000	abc@cdacmumbai.in		Manipur
ibochandra	irri1095	0000000000	abc@cdacmumbai.in		Manipur

Fig. 3.33