### Activity: Situational Analysis: (identification of hot spots)

1. **Situational Analysis:**
   - No. of kala-azar case and deaths PHC wise for last 5 years.
   - No. of high endemic sub-centres reporting cases in each PHC last 5 years.
   - No. of village wise kala-azar cases of each sub-centre for 5 years.

<table>
<thead>
<tr>
<th>PHC</th>
<th>Year</th>
<th>Cases</th>
<th>deaths</th>
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<tbody>
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<thead>
<tr>
<th>PHC</th>
<th>Pop.</th>
<th>SCs</th>
<th>Yr.</th>
<th>Case</th>
<th>deaths</th>
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<tbody>
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<td>2003</td>
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**Trend of the disease:**
- Name of highly endemic PHCs / Population
- Name of highly endemic Sub-centres / PHC / Population
- Name of highly endemic villages / Sub-centres / PHC / Population

**Responsibility:** SPO / DMO / MO - PHC

**Time Line:** By 15th Jan.
<p>| | | | |</p>
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<tbody>
<tr>
<td></td>
<td>2006</td>
<td>2007</td>
<td>2008</td>
</tr>
<tr>
<td>- Village wise population and number of kala-azar cases reported in last five years : line listing</td>
<td>%age of villages, subcentres and PHCs contributing kala-azar</td>
<td>Case prevalence rate (Block wise)</td>
<td></td>
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<tr>
<td>- Mapping of high endemic villages /sub-centres / PHCs</td>
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### Logistics Requirements:

- **No. of patients treated during last 3 years with**

  **SSG**

  - Received
  - Consumed
  - Balance stock

- **Amphoterine – B**

  - Received
  - Consumed
  - Balance stock

- **Miltefosine – B (pilot districts only)**

  - Received
  - Consumed
  - Balance stock

- **rK39 diagnostic test (pilot districts only)**

  - Received
  - Consumed
  - Balance stock

### Total drug requirements

- Avg. no. of 70% cases X 9 vial = Total plus 20% buffer – previous balance

- Avg. no. of 30% cases X 12 vial = Total plus 20% buffer – previous balance

- Avg. cases X 40 Capsule = Total plus 20% buffer – previous balance

- Avg. cases X 5 = Total plus 20% buffer – previous balance

### Infra-structure available/required

- **Staff position at district/PHC/Sub-centre level**

  - DMO
  - AMO
  - *Medical Officer
  - *Block Coordinator
  - Technician

### Sanctioned in position

- By 15th Jan.
<table>
<thead>
<tr>
<th><strong>Malaria Supervisor / Inspector</strong>&lt;br&gt;<strong>MPHWs</strong>&lt;br&gt;<strong>ANMs</strong></th>
</tr>
</thead>
</table>

4. **Budgetary Requirements**
- Case search
- Drugs
- POL
- Vector Control
  - Spray men wages
  - Equipments
  - Shifting insecticide
  - Others
- IEC
- Capacity Building
- Supervision and monitoring
- Previous Balance, Funds received, Requirements, Total
- State/District/PHC
- By 15th Jan. Advance release of funds and timely submission of SOEs and UCs may be arranged in time after proper audit

5. **Active case search**
- Detect case based on case definition
- Refer to PHC Treatment to confirmed case (make patient box)
- Arrange injections to the patients (ANMs mobility)
- Entry in treatment cards (patient/PHC)
- Entry in master register
- Provision of food support to patients/attendant
- Incentive to ANMs/MPHW/KA activist
- Complete treatment
- Monitoring & supervision
- Make village-wise programme
- Arrangement for Transport
- Ensure drug availability
- Get printed cards in required numbers
- Ensure availability
- Make arrangement in advance
- Ensure provision of funds flow
- Verify any side reactions
- BMO, Concerned PHC / KA Block Supervisor
- All working days
- Quarterly basis

6. **Passive case search**
- Detect case based on case definition
- Treatment to confirmed case (make patient box)
- Arrange injections/syringes for the patients (ANMs/MPWs mobility)
- Clinical diagnosis
- Ensure drug availability
- Arrangement for Transport
- BMO, Concerned PHC / KA Block Supervisor
- All working days
| ✓ Entry in treatment cards | ✓ Get Printed cards in required numbers |
| ✓ Entry in master register | ✓ Ensure availability |
| ✓ Provision of food support to patients/attendant | ✓ Make arrangement in advance |
| ✓ Incentive to ANMs/MPWs/KA activist | ✓ Ensure provision of funds flow |
| ✓ Complete treatment | ✓ Verify any side reactions |
| ✓ Monitoring & supervision | |

### 7 Insecticidal Residual Spray

(Indoor DDT spraying in all cattle sheds and human dwellings up to 6 ft. height from ground at the rate of 1 gm per sq. mt.)

- ✓ Prepare PHC/Village action plan
- ✓ Manpower (teams) required. (1 team covers about 60 houses / 300 population)
- ✓ Selection of spray teams
- ✓ Supervisory tier
- ✓ Training of the spray teams
- ✓ Beat programme

- ✓ Funds required for wages, mobility, supervision
- ✓ Availability of funds

- ✓ DDT requirements (75 MTs per million population for two rounds)
- ✓ Dumping to the grassroot level (mode of transport/locations/responsibility)

- ✓ Logistics requirements
  - Stirrup pumps
  - Spray nozzle - extra
  - Buckets
  - Measuring jugs

| ✓ Calculate targeted pop/rooms village wise | ✓ DMO/ BMO / KA Supervisors / MPHWs |
| ✓ Start the process for engaging spray men | 1st Round : Feb.-March |
| ✓ Identify the personnel | By 15th Jan. |
| ✓ Make training schedule | By 20th Jan. |
| ✓ Prepare day wise, team wise, village wise spray schedule | By 25th Jan. |
| ✓ Make fund available before activity | By 25th Jan. |
| ✓ Identify the supervisors & mobility support. Plan day wise, area wise visits, tour programme approvals | By 30th Jan. |

| ✓ 2nd Round : May-June |
| | By 15th Jan. |
| | By 20th Jan. |
| | By 25th Jan. |
| | By 30th Jan. |
| Strainers |
| Plastic sheets (3x3 metres) |
| Gloves |
| Masks |
| Others accessories |
| Stenciling material |
| Formats/registers |
- Mobility for supervision
- Supervisor teams at district/state/National level |
- **Undertake spray activities**
- Date of start
- Date of completion
- Finalization of spray reports.
- Submission of reports to district/state/national level

**PREPARE FOR IInd ROUND OF IRS FROM 1st MAY 2007**

### 8. Supportive Interventions

#### a). Behavioral Change Communication (BCC) through IEC Activities:

- Return of logistics, balance stock of DDT
- Receive village/sub-centre wise reports & compile
- Send report to all concerned

**State/District/BMO/KA Supervisors**

**Well before case search and IRS activities**

| 15th Feb |
| 31st March |
| By 7th April |
| By 10th April |

1. Electronic media
   - **TV**
   - **Cable**
   - **Radio**
   - **Miking**

- Make annual action plan for month wise BCC activities.
- Appeals from Chief Minister/Governor/Health Minister
- Provision of funds & its flow
- Prepare target oriented key message based on disease perception like cause, vector,
2. **Print Media**

- Newspapers
- Handbills / pamphlets
- Advance intimation cards for IRS
- Posters
- Hoardings
- Banners
- Billing (electricity, water, telephone)
- Tickets (Bus, Railways)
- Post cards
- School course curriculum

3. **Inter-personnel communication**

- Advocacy
- Group Meetings
- Nukad natak
- Processions
- Rallies
- Essay/painting competitions
- Drum Beating
- Personnel counseling

| signs & symptoms, treatment, free availability, IRS & community role at individual level. |
| Get the IEC material pre-tested in a sample population. |
| Identify the communication media based up on its large use by the target group in view of its periodicity (extent), time and place of its use appropriately to get impact. |
| Generate pre- & post base line data to assess the impact of IEC activities. |
| Calculate the requirements, develop IEC material/messages etc. accordingly. |
| Make arrangement for its dissemination |

**Arrange meeting at**

- Political level, 
- Administrator level, 
- Panchayat level, 
- Community level

b). **Inter-sectoral Coordination**

- Identify the role & responsibility of each sector. 
- Organize meeting
<table>
<thead>
<tr>
<th>Rural development</th>
<th>Panchayat Raj</th>
<th>Education</th>
<th>Tribal Welfare</th>
<th>Social Welfare</th>
<th>Agriculture</th>
<th>Youth Welfare</th>
<th>Involve in the required activity</th>
<th>Case detection</th>
<th>Treatment compliance</th>
<th>Acceptance of IRS</th>
<th>Sanitation</th>
<th>Poverty alleviation</th>
<th>Food support</th>
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</table>

c). NGOs/PPs/CBOs

- Identify NGOs/PPs/CBOs define role & responsibility in specific area & time framework in terms of manpower available with them.

d). Operation Research

- Use of impregnated bed nets
- Use of impregnated fabric
- Biology of kala-azar vector & spatial distribution
- Monitoring insecticide resistance
- Research institute may take up studies after developing protocol in collaboration with NVBDCP

9. **Capacity Building**

Medical Officers / District Kala-azar Coordinators

- Orientation for MOs on diagnosis & treatment & vector control of 3 days duration
- One day training on case search, reporting, diagnosis & treatment, IRS activities
- One day training on spray skills

Survey Teams for KA Fortnight
(Health Supervisors / MPHWs / ANMs / AWWs / ASHA / DDC, FTDs holders / NGOs/PPs)

Peripheral Workers including spray teams

State / District will develop action plan with no. of batches to be trained

Complete by 31st Jan.