

# YEAR WISE COMPILATION OF RAPID BIOASSAY OF PESTICIDE RESIDUE ANALYSIS RESULTS OF RBPR ANALYSIS UNIT, KALIMATI, KATHMANDU

## 1. 2071/3/5-2071/3/32

(Before implementation of RBPR working guidelines)

**Table 1. Crop wise RBPR analysis result of Kalimati in Asar 2071**

S.N.	Crops	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
<b>A</b>	<b>Vegetable</b>	<b>146</b>	<b>4</b>	<b>25</b>	<b>175</b>
1	<i>Akbare (hot pepper)</i>	2		1	3
2	<i>Asparagus</i>	1			1
3	<i>Bean</i>	4			4
4	<i>Bitter gourd</i>	9		1	10
5	<i>Bottle gourd</i>	8			8
6	<i>Brinjal</i>	8	1	1	10
7	<i>Broad leaf mustard</i>	5			5
8	<i>Cabbage</i>	5			5
9	<i>Capsicum</i>	5		2	7
10	<i>Carrot</i>	2		1	3
11	<i>Cauliflower</i>	13		1	14
12	<i>Chinese cabbage</i>			1	1
13	<i>Cowpea</i>	12	1	3	16
14	<i>Cucumber</i>	8	1		9
15	<i>Green leaf pumpkin</i>	1			1
16	<i>Hot pepper</i>	4		1	5
17	<i>Lettuce</i>	1			1
18	<i>Long sweet pepper</i>	1		2	3
19	<i>Mushroom</i>	5			5
20	<i>Mustard green leaf</i>	1			1
21	<i>Niuro fern</i>	1			1
22	<i>Okra</i>	7		1	8
23	<i>Pointed gourd</i>	3			3
24	<i>Potato</i>	8		7	15
25	<i>Pumpkin</i>	1			1
26	<i>Radish</i>	4			4
27	<i>Radish leaf</i>	1			1
28	<i>Snake gourd</i>	5			5
29	<i>Spinach</i>	1		1	2

30	Sponge gourd	11			11
31	Spring onion	3		1	4
32	Tomato	6	1	1	8
<b>B</b>	<b>Fruits</b>	<b>9</b>	<b>2</b>	<b>1</b>	<b>12</b>
1	Apple	1	1		2
2	Banana	1		1	2
3	Litchi	1			1
4	Mango	6	1		7
<b>C</b>	<b>Grand total</b>	<b>155</b>	<b>6</b>	<b>26</b>	<b>187</b>

**Table 2. Market-wise RBPR analysis result of Kalimati in Asar 2071**

S.N.	Market	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
1	Retail	35		6	41
2	Wholesale	120	6	20	146
	<b>Grand Total</b>	<b>155</b>	<b>6</b>	<b>26</b>	<b>187</b>

## 2. FY 2071/72

**Table 1. Crop wise RBPR analysis result of Kalimati in FY 2071/72**

S.N.	Crops	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
1	Bean/pea all	172	9	3	184
2	Bitter Gourd	69			69
3	Bottle gourd	40			40
4	Brinjal	111			111
5	Cabbage/Cauliflower/Broccoli	204			204
6	Capsicum+Akbare/Mache/Chilly	133			133
7	Cucumber	80	2		82
8	Okra	65			65
9	Pointed gourd	77	1		78
10	Potato	161	1		162
11	Pumpkin+squash	37			37
12	Snake/sponge gourd	18			18
13	Tomato	290	2	1	293
14	Other crops	58			58
15	Fruits all	36			36
	<b>Total</b>	<b>1551</b>	<b>15</b>	<b>4</b>	<b>1570</b>

**Table 2. Country/District-wise data 2071/72**

S.N.	Crops	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
<b>A</b>	<b>Nepal</b>	<b>1134</b>	<b>14</b>	<b>3</b>	<b>1151</b>
1	Dhading	273	1		274
2	Kavre	181	2		183
3	Chitwan	148	1		149
4	Sarlahi	87	7	1	95
5	Kathmandu	84	1	1	86
6	Makawanpur	80			80
7	Bhaktapur	51			51
8	Nuwakot	29			29
9	Lalitpur	21	1		22
10	Jhapa	19			19
11	Parsa	16		1	17
12	Sindhupalchowk	16			16
13	Dolakha	15			15
14	Gorkha	14			14
15	Bara	9			9
16	Bangladesh	7			7
17	Dang	6			6
18	Tanahu	5			5
19	Nawalparasi	4			4
20	Rautahat	4			4
21	Saptari	4			4
22	Siraha	4			4
23	Sunsari	4			4
24	Lamjung	2			2
25	Rupandehi	2			2
26	Sindhuli	2			2
27	Nuwakot	1			1
28	Kailali	1			1
29	kaski	1			1
30	Mahottari	1			1
31	Morang	1			1
32	Rasuwa	1			1
33	Terai (NA)	4			4
34	NA (Not available)	37	1		38
<b>B</b>	<b>Foreign Countries</b>	<b>417</b>	<b>1</b>	<b>1</b>	<b>419</b>
1	India	405	1	1	407

2	Bhutan	5			5
3	China	4			4
4	Thailand	2			2
5	Holland	1			1
<b>C</b>	<b>Grand Total</b>	<b>1551</b>	<b>15</b>	<b>4</b>	<b>1570</b>

**Table 3. Month wise RBPR analysis result of Kalimati in FY 2071/72**

S.N.	Crops	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
1	Shravan	119	3	2	124
2	Bhadra	173	3		176
3	Ashwin	113	1	1	115
4	Kartik	128			128
5	Mangsir	133	2	1	136
6	Paush	120			120
7	Magh	121			121
8	Falgun	120			120
9	Chaitra	156			156
10	Baisakh	67			67
11	Jestha	148	2		150
12	Asar	153	4		157
	<b>Grand Total</b>	<b>1551</b>	<b>15</b>	<b>4</b>	<b>1570</b>

### 3. FY 2072/73

**Table 1. Crop wise RBPR analysis result of Kalimati in FY 072/73**

S.N.	Crops	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
1	Beans(Cowpea,pea,YL,Pole,sword bean etc)	274	4	2	280
2	Bitter gourd	87			87
3	Bottle gourd	21			21
4	Brinjal	184	1		185
5	Brocauli,Knolkhol, Radish,Turnip,Leafy veg	21			21
6	Mushroom	22			22
7	Cabbage	106			106
8	Cauliflower	160		1	161
9	Chilly+Mache+Akbare	117			117

10	Cucumber	57		1	58
11	Okra	117			117
12	Pointed gourd	90	1		91
13	Potato	65	1		66
14	Pumpkin	28			28
15	Snake Gourd	6			6
16	Sponge gourd	17			17
17	Tomato	387	1	4	392
18	Zuchini	20			20
19	Capsicum	78		2	80
20	Others(Barela,Carrot,Chattel,Garlic)	26			26
21	Fruits (Apple,Banana,G.apple,Grape, Kiwi,Mango,Mangosteen,Pear,Orange, Strawberry)	35			35
	<b>Total</b>	<b>1918</b>	<b>8</b>	<b>10</b>	<b>1936</b>

**Table 2.Country/District-wise RBPR analysis result of Kalimati in FY 2072/73**

S.N.	Crops	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
<b>A</b>	<b>Nepal</b>	<b>1523</b>	<b>8</b>	<b>7</b>	<b>1538</b>
1	Dhading	341			341
2	Sarlahi	243	6	1	250
3	Chitwan	227		1	228
4	Kavre	219	1		220
5	Kathmandu	134		3	137
6	Makwanpur	135			135
7	Bhaktapur	56			56
8	Nuwakot	33			33
9	Gorkha	32			32
10	Parsa	29			29
11	Lalitpur	20			20
12	Dolkha	13			13
13	Rautahat	11		1	12
14	Jhapa	7	1		8
15	Hetauda	4			4
16	Sidhupalchok	4			4
17	Morang	3			3
18	Sindhuli	3			3
19	Banke	2			2
20	Ilam	2			2
21	Bara			1	1

22	<i>Kaski</i>	1			1
23	<i>Syangja</i>	1			1
24	<i>Tanahu</i>	1			1
25	<i>NA</i>	2			2
<b>B</b>	<b>Foreign Countries</b>	<b>395</b>	<b>0</b>	<b>3</b>	<b>398</b>
1	<i>India</i>	388		3	391
2	<i>China</i>	3			3
3	<i>Bhutan</i>	2			2
4	<i>Australia</i>	1			1
5	<i>New Zealand</i>	1			1
<b>C</b>	<b>Grand Total</b>	<b>1918</b>	<b>8</b>	<b>10</b>	<b>1936</b>

**Table 3. Month wise RBPR analysis result of Kalimati in FY 2072/73**

S.N.	Month	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
1	Shravan	153	2		155
2	Bhadra	191		1	192
3	Ashwin	130			130
4	Kartik	65			65
5	Mangsir	118	1		119
6	Paush	187	2	2	191
7	Magh	203	3	1	207
8	Falgun	137		2	139
9	Chaitra	169			169
10	Baisakh	99		1	100
11	Jestha	218			218
12	Asar	248		3	251
	<b>Grand Total</b>	<b>1918</b>	<b>8</b>	<b>10</b>	<b>1936</b>

## 4. FY 2073/74

**Table 1. Crop-wise RBPR analysis result of Kalimati on FY 2073/74**

S.N.	Crops	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
<b>A</b>	<b>Vegetable</b>	<b>1875</b>	<b>5</b>	<b>21</b>	<b>1901</b>
1	Tomato	382	4	8	394
2	Cauliflower	218	1	8	227
3	Brinjal	217			217
4	Cucumber	165		1	166
5	Cabbage	109			109
6	Okra	97			97
7	Bean	93			93
8	Potato	78			78
9	Bitter Gourd	66		3	69
10	Pumpkin	63			63
11	Pointed gourd	62			62
12	Cowpea	60		1	61
13	Capsicum	52			52
14	Bottle gourd	47			47
15	Broccoli	42			42
16	Chilly	28			28
17	Sponge gourd	22			22
18	Zuchini	12			12
19	Snake gourd	11			11
20	Pea	7			7
21	Barela	7			7
22	Bean (Ghiusimi)	6			6
23	Rayo Sag	5			5
24	Radish	5			5
25	Onion	4			4
26	Green onion	4			4
27	Carrot	3			3
28	Coriandar	2			2
29	Mustard leaf (Tori)	3			3
30	Eskush(Chayote)	2			2
31	Knol Khol	1			1
32	Beet root	1			1
33	Red Cabbage	1			1
<b>B</b>	<b>Fruit</b>	<b>29</b>	<b>0</b>	<b>0</b>	<b>29</b>

1	Apple	15			15
2	Mango	3			3
3	Grape	3			3
4	Orange	3			3
5	Banana	2			2
6	Papaya	1			1
7	Pomegranate	1			1
8	Kinnow	1			1
	<b>Grand Total</b>	<b>1904</b>	<b>5</b>	<b>21</b>	<b>1930</b>

**Table 2. Country/District-wise RBPR analysis result of Kalimati on FY 2073/74**

S.N.	Countries/Districts	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
A	<b>Nepal</b>	<b>1575</b>	<b>5</b>	<b>15</b>	<b>1595</b>
1	Dhading	434		2	436
2	Chitwan	253		2	255
3	Kavre	220	1	7	228
4	Sarlahi	158	1		159
5	Makawanpur	115			115
6	Kathmandu	90	2	1	93
7	Nuwakot	62			62
8	Gorkha	58			58
9	Bhaktapur	50			50
10	Lalitpur	33			33
11	Parsa	18		1	19
12	Dolakha	16			16
13	Rupandehi	12			12
14	Tanahun	10			10
15	Sindhupalchwok	8		1	9
16	Jhapa	8	1		9
17	Rautahat	8			8
18	Bara	4		1	5
19	Kapilvastu	5			5
20	Nawalparasi	4			4
21	Sunsari	1			1
22	Kaski	1			1
23	Taplejung	1			1
24	Morang	1			1
25	Dhanusha	1			1
26	Dang	1			1



27	NA	3			3
<b>B.</b>	<b>Foreign countries</b>	<b>329</b>	<b>0</b>	<b>6</b>	<b>335</b>
1	India	324		6	330
2	China	3			3
3	Bhutan	1			1
4	Holland	1			1
<b>C.</b>	<b>Grand total</b>	<b>1904</b>	<b>5</b>	<b>21</b>	<b>1930</b>

**Table 3. Monitoring type-wise RBPR Analysis Result of Kalimati on FY 2073/74**

S.N.	Countries/Districts	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
<b>A</b>	<b>Regular</b>	<b>1643</b>	<b>3</b>	<b>15</b>	<b>1661</b>
<b>B</b>	<b>Naka Chadke</b>	<b>115</b>	<b>1</b>	<b>5</b>	<b>121</b>
	1. Balaju	25			25
	2. Thankot	44		2	46
	3. Jagate	46	1	3	50
<b>C</b>	<b>RBPR Lab monitoring</b>	<b>91</b>			<b>91</b>
<b>D</b>	<b>Others (PACT/DADOs/RPPL etc)</b>	<b>55</b>	<b>1</b>	<b>1</b>	<b>57</b>
	<b>Grand Total</b>	<b>1904</b>	<b>5</b>	<b>21</b>	<b>1930</b>

**Table 4. Month-wise RBPR analysis result of Kalimati on FY 2073/74**

S.N.	Countries/Districts	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
1	Shravan	148	1	3	152
2	Bhadra	156	1	1	158
3	Ashwin	134			134
4	Kartik	83		2	85
5	Mangsir	151		3	154
6	Paush	165		2	167
7	Magh	175	1	8	184
8	Falgun	152	1	1	154
9	Chaitra	186			186
10	Baisakh	173		1	174
11	Jestha	190			190
12	Asar	191	1		192
	<b>Grand Total</b>	<b>1904</b>	<b>5</b>	<b>21</b>	<b>1930</b>

Year -wise RBPR analysis result of Kalimati					
S.N.	Year	Inhibition Percentage			Grand Total
		<35% (Green)	35%-45% (Yellow)	>45% (Red)	
1	2071 (Asar 5-Asar32)	155 (82.89%)	6 (3.21%)	26 (13.90%)	187
2	FY 2071/72	1551 (98.79%)	15 (0.96%)	4 (0.25%)	1570
3	FY 2072/73	1918 (99.07%)	8 (0.41%)	10 (0.52%)	1936
4	FY 2073/74	1903 (98.6)	5 (0.26%)	22 (1.14%)	1930
	<b>Grand total</b>	<b>5527 (98.29%)</b>	<b>34 (0.60%)</b>	<b>62 (1.10%)</b>	<b>5623</b>

**Note:**

- Only organophosphate and carbamate group of insecticide were tested in RBPR analysis.
- RBPR analysis gives only inhibition percentage from which the following result is withdrawn
  - Below 35% is edible (given in green colour)
  - 35- 45% need quarantine for few days and washing (given in yellow colour)
  - More than 45% considered as not edible in toxicological sense and needs to dispose (given in red colour)
- NA- Not available