

MoHFW Approved Specification

Technical Specifications for Solar Direct Drive Combined Refrigerator/Freezer (Small)

1. Description of function:

- i. Solar Direct Drive Combined Refrigerator/Freezer required to store vaccines and freeze ice packs.

2. Operational requirements:

- i. Solar powered DC compression refrigeration
- ii. Grade-A freeze free technology(UIFP)
- iii. Climate Zone Hot (designed & tested for the range between +5°C to +43°C without solar energy). Solar energy input hold overtime should not be less than 72 hrs at +43°C (All points in vaccine compartment remain between +2°C and +8°C)
- iv. Twin DC compressor (Refrigerator+ Deep Freezer) direct drive with solar panel.
- v. Type compression cycled, CFC Free (both for refrigeration and insulation all systems tubing (suction tube, freezer tube and condensing tube) should be minimum 99.97% of pure copper coil.
- vi. The unit shall be capable to being stored continuously in ambient temperature as per the WHO PQS norms for hot zone(+43°C)
- vii. Provision for drainage plug for the waste water in both the compartment.
- viii. Should have independent lid/door refrigerator and freezer section with lock and key arrangements.
- ix. Should have legs in the base with rotating screw type height adjustments to balance the weight on uneven floor.

3. Technical specifications:

- i. Net Vaccine storage capacity of refrigerator compartment should be 35-70 Litre.
- ii. Gross volume of freezer is: Minimum 20 litres.
- iii. Freezing capacity not less than 1.6 kg 24h.
- iv. Temperature of refrigerated compartment to be maintained between +2°C to +8°C and temperature of freezing compartment to be maintained at (-)25°C to (-)15°C at ambient temperature range of +5°C to +43°C.
- v. The temperature gradient at any two point of cabinet should be less than 2°C.

4. Construction:

- i. Roto moulded / stainless steel (Stainless 304 grade steel) body construction rusts free.
- ii. Front/Chest type with CFC free insulation.
- iii. Solid door with lock and handle.
- iv. Hinges & gasket quality should be best, robust and corrosion resistant.
- v. A control unit should be provided for setting of temperature and display with the following features:

- Separate digital display (to be decimal point) of cabinet temperature required.
- Power on LED/LCD indicator
- Audible alarm & visual alarm (as per PQS standard) for the both unit separately.
- The unit should be sealed, protected from dust moisture or condensed water falling over it.
- Sensor accuracy of digital controller $\pm 0.5^{\circ}\text{C}$.

vi. **Solar Panel: Solar PV Modules should be Crystalline Silicon and meet following requirement.**

- The PV modules must conform to the latest edition of the following IEC / equivalent BIS Standards for PV module design qualification and type approval:
- Crystalline Silicon Terrestrial PV Modules IEC 61215 / IS14286"
- In addition, the modules must conform to IEC 61730 Part 1- requirements for construction & Part 2 - requirements for testing, for safety qualification.

5. Microprocessor System configuration

- Programmable microprocessor control unit with child lock / auto lock facility.
- Should have provision to set minimum and maximum temperature at 0.1°C to programme the unit for continuous operations.

6. Accessories spares and warrantee:

- The equipment should have minimum 10 years' warrantee including comprehensive maintenance of 10 years after installation.
- Vaccine storage basket allowing free circulation of air, having the size to be able to accommodate in the unit and suitable to match the net volume requirement.
- Stem alcohol thermometer (specifications and standard as per MOHFW approved annexure-1) two piece per unit.
- The supplier is required to maintain all the spares parts throughout the warrantee period and not less than ten years.

7. Environmental factors:

- Manufacturing process of the product should not use or produce hazardous chemicals-gasses with Restrictions of Hazardous Substances (ROHS) compliance.
- The unit shall be capable of operative continuously in ambient temperature as per WHO PQS norms for hot zone($+43^{\circ}\text{C}$).
- At a solar radiation reference period of $3.5 \text{ kWh/m}^2/\text{day}$.

8. Standards and safety

- Test and inspection as per WHO procedure reference WHO/PQS/E03/RF05-VP.4 testing should be carried out from WHO certified lab/NABL/STQC.
- Electrical safety rating: manufacturer to certify compliance with IEC 60335 – 1 Addition 4.1 house hold and similar electrical appliances-safety.

9. Documentation

- i. Copy of equipment PPTs, User / operator manuals to be supplied in English.
- ii. A paper copy of technical / wiring diagram / maintenance manuals to be supplied in English.
- iii. Certificate of inspection of technical compliance from WHO PQS laboratories/NABL/STQC. Certificate of testing should be currently valid till the supply and same must be verified by inspecting authority.
- iv. List of all spare parts and accessories with their part number and costing.
- v. List of service centre / workshop / toll free numbers should be provided by the supplier.

10. Packing of the equipment during shipment:

- i. The supplier should provide strong and sufficient packing to ensure safe arrival of goods at the destination free from loss or damages.
- ii. A vertical arrow should be marked at the all sides of packages to ensure transportation equipment in vertical position. Top and bottom should also be written.
- iii. To put label and signage's for handle with care on all sides of the crates as per packing & shipment norms.

11. Following messages should be written at the top of the equipment.

- i. Place SDD at least 10 cms away from the wall and 20 cms away from other equipment for free air circulation.
- ii. Safe temperature range +2°C to +8°C for refrigerator and (-)25°C to (-)15°C for deep freezer.
- iii. At CHC/ PHC use deep freezer for freezing of ice packs only
- iv. Open the lid/door, only when needed.
- v. Keep all vaccine in wire baskets provided.
- vi. Leave space between the vaccine boxes and ice packs for air circulation
- vii. Place a thermometer at the place provided.
- viii. Avoid removing thermometer from the unite while reading temperature.
- ix. Net vaccine storage capacity in litres.
- x. Hold over time in hrs.

12. Installation and commissioning:

- i. Complete installation testing and commissioning is to be done by the supplier inclusive of Installation of solar array with accessories, electrical work, earthing, lighting arrester with accessories, Laying of cables etc.
- ii. Installation material should be provided by the supplier to destination point including transportation insurance.
- iii. Installation and commission work will be verified by site in charge.

13. Training

- i. Preventive maintenance training by company representative of manufacturer to the user after successful installation and commissioning.
- ii. One Centralized Technical Training should be provided by supplier.

13. Desirable

- i. Equipment Ground clearance required minimum 100 mm for cleanness purposes.
- ii. Inlet of capillary should be outside the PUF body.
- iii. Min & Max cabinet temperature digital display of last 24 hrs and breaches during last 24hrs.

ALCOHOL STEM THERMOMETER**Power source:**

None

Temperature ranges& accuracy:

Upper limit: +50°C

Lower limit: -30°C

Accuracy: $\pm 1^{\circ}\text{C}$ **Scale markings:**

Easily readable with a minimum space of 1 mm between each line:

Long lines (with numbers) for each 10 degrees

Short lines for even numbered degrees

Shorter lines for odd numbered degrees

Safe zones for ranges of +2°C to +8°C and -15°C to -25°C to be marked with a green bar.

Maximum relative humidity: 90%**Casing specification:** Non-corrodible, sealed mechanism.**Vibration test:** Product should stand 30 minutes on a programable vibrating table without physical damage or calibration. Calibration certificate from NABL/STQC/WHO approved lab should be submitted along with bid and subsequently to be verified at the time of inspection.**Construction:**

The glass column must be protected against break age and strongly supported so that:

- ° the column cannot be displaced more than 0.5mm vertically with respect to the scale;
- ° the reading angle is between 80/100° to plane of support plate.

Mounting specification

Hook to suspend from shelf, or adhesive. Application and remarks:

Used inside refrigerators or freezers in small health centres. Can also be packed with vaccines during transport.

WHO Specification reference: E6/TH.3

Applies to procedures: E6/PROC/2

Warranty

The warranty shall remain valid for two years from the date of final acceptance

The supplier shall replace defective thermometer with a new one free of cost with in warranty period.
The supplier may take over defective thermometer after providing the replacement.

Consignee List

Consignee List for SDD (Small)

S.No.	State	Name Of District	Name Of Block	Name Of CCP	Small Equipment
1	Jammu & Kashmir	Doda	Gandoh	PHC Changa	1
2	Jammu & Kashmir	Doda	Gandoh	PHC Tipri	1
3	Jammu & Kashmir	Doda	Gandoh	PHC Jakyas	1
4	Jammu & Kashmir	Doda	Gandoh	PHC Chilly	1
5	Jammu & Kashmir	Doda	Ghat	PHC Dhara	1
6	Jammu & Kashmir	Doda	Ghat	PHC Kastigahr	1
7	Jammu & Kashmir	Doda	Ghat	PHC Gai Desa	1
8	Jammu & Kashmir	Doda	Assar	PHC Goha	1
9	Jammu & Kashmir	Doda	Bhaderwah	PHC Chinta	1
10	Jammu & Kashmir	Doda	Bhaderwah	PHC Sartingle	2
11	Jammu & Kashmir	Doda	Thatri	PHC Malanoo	1
12	Jammu & Kashmir	Doda	Thatri	PHC Kansoo	1
13	Jammu & Kashmir	Poonch	Mandi	PHC Lohran	2
14	Jammu & Kashmir	Poonch	Mandi	PHC Sawzian	2
15	Jammu & Kashmir	Ramban	Banihal	PHC Mangit	1
16	Jammu & Kashmir	Ramban	Banihal	S/C Chamelwas	1
17	Jammu & Kashmir	Ramban	Batote	PHC Rajgarh	1
18	Jammu & Kashmir	Ramban	Batote	PHC Bhatni	1
19	Jammu & Kashmir	Ramban	Ukheral	PHC Khari	1
20	Jammu & Kashmir	Ramban	Ukheral	NTPHC Neel	1
21	Jammu & Kashmir	Ramban	Gool	PHC Dehda (New CCP proposed)	1
22	Jammu & Kashmir	Ramban	Gool	NTPHC Surindi (New CCP proposed)	1
23	Jammu & Kashmir	Udhampur	Panchari	PHC Mangori	1
24	Jammu & Kashmir	Udhampur	Panchari	PHC Langar	1
25	Jammu & Kashmir	Udhampur	Panchari	AD Ladda	1
26	Jammu & Kashmir	Udhampur	Panchari	AD Bahroit	1
27	Jammu & Kashmir	Udhampur	Basantghar	S/C Chatrari	1
28	Jammu & Kashmir	Udhampur	Basantghar	PHC Latti	1
29	Jammu & Kashmir	Khistwar	Khistwar	PHC Keeru	1
30	Jammu & Kashmir	Khistwar	Dachhan	PHC Afti	1
31	Jammu & Kashmir	Khistwar	Chatroo	NTPHC Inderwal	1
32	Jammu & Kashmir	Khistwar	Paddar	PHC Massu	1
33	Jammu & Kashmir	Reasi	Mahore	PHC Gota	1
34	Jammu & Kashmir	Reasi	Mahore	PHC Dharmati	1
35	Jammu & Kashmir	Reasi	Pouni	Thakrakote	1
36	Jammu & Kashmir	Leh	Nayoma	PHC Korzuk	1
37	Jammu & Kashmir	Leh	Khalsi	PHC Linshet	1
38	Jammu & Kashmir	Badndipora	Gurez	NTPHC Kanzalwan	1
39	Jammu & Kashmir	Badndipora	Gurez	NTPHC Gujran	1
40	Jammu & Kashmir	Badndipora	Gurez	NTPHC Kitshay	1
41	Jammu & Kashmir	Kupwara	Kalaross	PHC Duddi	1
42	Jammu & Kashmir	Kupwara	Karalpora	PHC Keran	1
43	Jammu & Kashmir	Ganderbal	Kangan	PHC Kulan	1
44	Jammu & Kashmir	Ganderbal	Kangan	PHC Gund	1
45	Jammu & Kashmir	Kulgam	DH Pora	PHC DK Marg	1
46	Jammu & Kashmir	Shopian	Shopian	PHC Sedow	1
47	Jammu & Kashmir	Shopian	Kellar	PHC Berthipora	1
48	Jammu & Kashmir	Badgam	Berwa	NTPHC Ratsun	1
49	Jammu & Kashmir	Badgam	Khag	NTPHC Lassipora	1
50	Jammu & Kashmir	Anantnag	Mutton	PHC Hapatnag	1

51	Jammu & Kashmir	Anantnag	Sellar	PHC Larnu	1
52	Jammu & Kashmir	Anantnag	Verinag	PHC Kammar	1
53	Jammu & Kashmir	Baramulla	Byoniar	PHC Tarkanjan	1
54	Jammu & Kashmir	Baramulla	Uri	PHC Kamalkot	1
55	Jammu & Kashmir	Kargil	Kargil	NTPHC Akchamal	1
56	Jammu & Kashmir	Kargil	Drass	NTPHC Kharboo	1
57	Jammu & Kashmir	Pulwama	Rajpora	PHC Sangerwani	1
58	Jammu & Kashmir	Pulwama	Tral	NTPHC Stoora	1
59	Jammu & Kashmir	Pulwama	Pampore	PHC Ladhoo	1
60	Odisha	Jagatsinghpur	Erasama	Dhinkia PHC(N)	1
61	Odisha	Kandhamaal	K.Nuagaon	GUNJIBADI	1
62	Odisha	Rayagada	Kashipur	Sunger	2
63	Odisha	Rayagada	Kashipur	Mandibisi	2
64	Odisha	Rayagada	Kashipur	Dangasil	2
65	Odisha	Rayagada	Bissamcuttack	Sahada	2
67	Odisha	Rayagada	Gudari	G.Dhepaguda	2
68	Odisha	Gajapati	Mohana	PHC(N) Chudangpur	1
69	Odisha	Gajapati	Gumma	Serango	1
70	Odisha	Nuapada	Komna	Sunabeda PHC(N)	1
71	Odisha	Cuttack	Kanpur	Birbhuin SC	1
72	Odisha	Koraput	DASMANTHPUR	GIRLIGUMMA PHC(N)	1
73	Odisha	Koraput	DASMANTHPUR	ADAMUNDA PHC(N)	1
74	Odisha	Koraput	POTTANGI	SIKAPODAR PHC(N)	1
75	Odisha	Kalahandi	TH.RAMPUR	NAKRUNDI	1
76	Odisha	Kalahandi	TH.RAMPUR	Kiapadar	1
77	Odisha	Kalahandi	BORDA	Duarsuni	1
78	Odisha	Nayagarh	Daspalla	Chdheyapalli	1
79	Odisha	Nayagarh	Gania	Chadmundia	1
89	Tripura	Dhalai	Chawmanu	23 Kilo PHC	1
99	Manipur	Kangpokpi	Kangpokpi	T waichong PHC	1
100	Manipur	Kangpokpi	Kangpokpi	Kangpokpi CHC	1
106	Manipur	Churchandpur	Singngat	Behiang PHC	2
109	Manipur	Tamenglong	Tamei	Tamei PHC	2
110	Manipur	Noney	Nungba	Noney PHC	2
111	Manipur	Ukhrul	Ukhrul	KhangkhuiKhullen PHC	2
115	Manipur	Kamjong	Kamjong	Kamjong CHC	2
117	Manipur	Tengnoupal	Tengnoupal	Tengnoupal PHC	1
118	Mizoram	Champhai	Ngopa	Mimbung	1
119	Mizoram	Champhai	Ngopa	NE Khawdungsei	1
120	Mizoram	Champhai	Ngopa	Ngopa	1
121	Mizoram	Champhai	Khawzawl	Kawlkulh	1
122	Mizoram	Champhai	Khawzawl	Rabung	1
123	Mizoram	Champhai	Khawzawl	Khawhai	1
124	Mizoram	Champhai	Khawzawl	Sialhawk	1
125	Mizoram	Champhai	Khawzawl	Biate	1
126	Mizoram	Champhai	Khawzawl	Khawzawl	2
127	Mizoram	Champhai	Champhai	Hnahlan	1
128	Mizoram	Champhai	Champhai	DVS	2
129	Mizoram	Champhai	Champhai	Zokhawthar	1
130	Mizoram	Champhai	Khawbung	Farkawn	1
131	Mizoram	Champhai	Khawbung	Khawbung	1
132	Mizoram	Champhai	Khawbung	Bungzung	1
133	Mizoram	Lunglei	Hnahthial	S. Vanlaiphai	1

134	Mizoram	Lunglei	Hnahthial	Hnahthial	1
135	Mizoram	Lunglei	Hnahthial	Cherhlun	1
136	Mizoram	Lunglei	Hnahthial	Pangzawl	1
137	Mizoram	Lunglei	Lunglei	Tawipui	1
138	Mizoram	Lunglei	Lunglei	Haulawng	1
139	Mizoram	Lunglei	Lunglei	Chhipphir	1
140	Mizoram	Lunglei	Lunglei	DVS	2
141	Mizoram	Lunglei	Lungsen	Lungsen	1
142	Mizoram	Lunglei	Lungsen	Tlabung	2
143	Mizoram	Lunglei	Bunghmun	Bunghmun	2
144	Mizoram	Lunglei	Bunghmun	Buarpui	1
145	Mizoram	Lawngtlai	Lawngtlai	Lawngtlai MC	2
146	Mizoram	Lawngtlai	Sangau	Sangau PHC	2
147	Mizoram	Lawngtlai	Sangau	Lungpher PHC	1
148	Mizoram	Lawngtlai	Sangau	Bualpui NG	1
149	Mizoram	Lawngtlai	Bungtlang	Bungtlang PHC	2
151	Mizoram	Lawngtlai	Chawngte	Chawngte CHC	2
152	Mizoram	Lawngtlai	Chawngte	Borapansury PHC	2
153	Mizoram	Aizawl East	Saitual	Tualbung Sc	1
154	Mizoram	Aizawl East	Saitual	Buhban SC	1
155	Mizoram	Aizawl East	Saitual	Lenchim SC	1
156	Mizoram	Aizawl East	Sakawrdai	Mauchar	1
157	Mizoram	Aizawl East	Sakawrdai	Palsang	1
158	Mizoram	Kolasib	Thingdawl	Bukpui	2
159	Mizoram	Aizawl West	Kanghmun	Kanghmun	1
160	Mizoram	Aizawl West	Reiek	Reiek	1
161	Mizoram	Aizawl West	Lengpui	Lengpui	1
162	Mizoram	Aizawl West	Aibawk	Aibawk	1
163	Mizoram	Aizawl West	Aibawk	Darlung	1
164	Mizoram	Aizawl West	Sairang	Sairang	1
165	Mizoram	Aizawl West	Sialsuk	Sialsuk	1
166	Mizoram	Siaha	Siaha	Chakhei PHC	1
167	Mizoram	Siaha	Siaha	Chhaolo PHC	1
168	Mizoram	Siaha	Siaha	Siaha MC	2
169	Mizoram	Siaha	Tipa	Tipa PHC	2
170	Mizoram	Siaha	Tipa	Phura PHC	2
171	Mizoram	Mamit	Zawlnuam	Mamit DVS	2
175	Mizoram	Mamit	Reiek	Rawpuichhip PHC	2
178	Mizoram	Mamit	W. Phaileng	Marpara PHC	2
179	Mizoram	Serchhip	Serchhip	Serchhip DVS	1
180	Mizoram	Serchhip	Serchhip	Chhingchhip	1
181	Mizoram	Serchhip	Serchhip	Thenzawl	1
182	Mizoram	Serchhip	Serchhip	Ngentiang	1
183	Mizoram	Serchhip	E. Lungdar	E. Lungdar	1
184	Mizoram	Serchhip	E. Lungdar	Khawlailung	1
185	Mizoram	Serchhip	E. Lungdar	N. Vanlaiphai	1
188	Assam	K-Anghlong	Zirikinding	Zirikinding	2
189	Assam	K-Anghlong	Howraghat	Dhemta Ghat	2
190	Assam	K-Anghlong	Chowkihol	Chowki Hla	2
191	Assam	K-Anghlong	Howraghat	Roja Pathar	2
192	Assam	K-Anghlong	Manja	Dhonshee	2
193	Assam	K-Anghlong	Manja	Borlangpher	2
194	Assam	Morigaon	Jargaon	Merua Gaon SD	1

195	Assam	Morigaon	Laharighat	Dharamtul SD	2
196	Assam	Morigaon	Laharighat	Bahabarjari SD	1
197	Assam	Morigaon	Laharighat	Dalangghat SD	2
198	Assam	Morigaon	Bhurbandha	Mikirbheta SD	2
199	Assam	Morigaon	Bhurbandha	Udari SD	2
200	Assam	Morigaon	Laharighat	Nogabhandha PHC	2
203	Assam	Morigaon	Laharighat	Nijgarmuwa SD	2
204	Assam	Morigaon	Laharighat	Boralimari SD	2
205	Assam	Nagaon		Dighal Jhar	2
206	Assam	Nalbari	Makulmua	Bhgnamari CHC	2
207	Assam	Nalbari	Makulmua	Kurihamari PHC	1
209	Assam	Barpeta	Chenga	Khrokhatri CHC	2
211	Assam	Bongaigaon	Srijangram	Kirtan Para MPHC	2
212	Assam	Bongaigaon		Kachutola MPHC	2
213	Assam	Bongaigaon	Manikpur	Patiladha PHC	2
214	Assam	Bongaigaon		Pashania MPHC	2
215	Assam	Dhubri	S. Salmora	Boat Clinic 1	2
217	Assam	Dhubri	S. Salmora	Airakata	2
218	Assam	Dhubri	S. Salmora	Madertary MPHC	2
219	Assam	Goalpara	Lakhipur	Dhumer Ghat	2
220	Assam	Kokrajhar	Balajan	Patgaon SD	1
221	Assam	Kokrajhar	Balajan	Sukanjhora SD	2
222	Assam	Kokrajhar	Dotma	Jharbari SD	2
223	Assam	Kokrajhar	Dotma	Pratapkata SD	1
224	Assam	Kokrajhar	Kochugaon	Saraibil SD	2
225	Assam	Kokrajhar	Kochugaon	Jaraguri SD	2
226	Assam	Dibrugarh	Lahowal BPHC	Rowmorla	2
227	Assam	Dibrugarh	Naharani	Sasani	2
228	Assam	Dibrugarh	Lahowal BPHC	Boat Clinic	1
229	Assam	Golaghat	Sarupathar	Naharchola	2
230	Assam	Golaghat	Missamora	Belotia	2
231	Assam	Dhemaji		Mingmang Borta	2
232	Assam	Dhemaji		Deogharia	2
233	Assam	Dhemaji		Sishimukh	2
234	Assam	Dhemaji		Amguri MPHC	2
235	Assam	Dhemaji		Boat Clinic	2
236	Assam	Lakhimpur		Meneha SD	2
237	Assam	Lakhimpur		Sirajuli MPHC	2
238	Assam	Lakhimpur		Rampur SC	1
239	Assam	Lakhimpur		Bogum SC	2
240	Assam	Sonitpur		Boat Clinic	2
241	Assam	Udalguri	Orang	Dhanshreeghat NPHC	2
242	Assam	Udalguri	Orang	Borabazar NPHC	2
243	Assam	Udalguri	Khoirabari	Dimakuchi SD	2
244	Assam	Udalguri	Khoirabari	Paniseli SD	2
245	Assam	Hailakandi	Lala	Bilaipur MPHC	2
246	Assam	Hailakandi	Katlicherra	Jamira	2
247	Assam	Hailakandi	Lala	Monachora MSC	2
248	Assam	Dima Hasao	Mahur	Laisong SHC	2
249	Assam	Dima Hasao	Mahur	Boro-arkap SHC	1
250	Assam	Dima Hasao	Langting BPHC	Hajadisa SHC	2
254	Bihar	Arwal	Karpi	APHC Kinijar	2
286	Nagaland	Wokha	Wozhuro/ Ralan	Wozhuro PHC	1

287	Nagaland	Wokha	Wozhuro/ Ralan	Tongtongo SC	2
288	Nagaland	Peren	Athibung	Athibung PHC	2
289	Nagaland	Peren	Tenning	Nsong SC	1
290	Nagaland	Tuensang	Noklak	Panso PHC	1
291	Nagaland	Tuensang	Noksen	Noksen PHC	1
292	Nagaland	Tuensang	Chessore	Chessore PHC	1
293	Nagaland	Mon	Aboi	Chen PHC	1
294	Nagaland	Mon	Phomching	Phomching PHC	1
295	Nagaland	Zunheboto	Satakha	Satakha PHC	2
296	Nagaland	Zunheboto	Suruhoto	Suruhoto PHC	2
297	Nagaland	Kiphire	Pungro	Likhimro HWC	1
298	Nagaland	Phek	Meluri	Weziho PHC	1
299	Sikkim	North		Chungthang PHC	2
300	Sikkim	North		Hee-Gyathang PHC	1
301	Sikkim	North		Passingdong PHC	2
302	Sikkim	West		Soreng PHC	2
303	Sikkim	West		Yuksom PHC	1
304	Sikkim	West		Rinchenpong PHC	2
305	Sikkim	West		Mongalberia PHC	2
306	Sikkim	East		Rongli PHC	2
307	Sikkim	East		Machong PHC	2
308	Sikkim	East		Rhenock CHC	2
309	Sikkim	South		Ravangla PHC	2
310	Sikkim	South		Jorethang CHC	2
311	Manipur	Saikul	Saikul	Saikul PHC	2
312	Manipur	Saikul	Saikul	Maphou PHC	1
313	Manipur	Chandel	Chandel	Komlathabi PHC	2
314	Manipur	Chandel	Chandel	DH Chandel	2
315	Chhattisgarh	Mungeli	Lormi	PHC Khudiya	1
316	Chhattisgarh	Mungeli	Lormi	PHC Salheghori	1
317	Chhattisgarh	Gariyaband	Mainpur	PHC Amlipadar	1
318	Chhattisgarh	Gariyaband	Mainpur	PHC Urmal	1
319	Chhattisgarh	Sukma	Konta	PHC Chitalnar	1
320	Chhattisgarh	Sukma	Konta	PHC Chinta gupha	1
321	Chhattisgarh	Sukma	Konta	PHC Kistaray	1
322	Chhattisgarh	Sukma	Chhindgarh	PHC Gorli Kundalpal	1
323	Chhattisgarh	Bijapur	Usoor	PHC Pamed	1
Total					344