

**Department of Agriculture, Co-operation and Farmers Welfare**  
**Ministry of Agriculture and Farmers Welfare**

Themes	GoS Recommendations	Action Plans for implementation	Timeline	Remarks
<b>Farmers Centric issues under Agriculture and allied sectors</b>	Provide risk mitigation tools	<p>The New Crop Insurance Scheme - Pradhan Mantri Fasal Bima Yojaya (PMFBY) has been formulated after extensive consultation with all stakeholders including farmers, State Govts., concerned Deptts. of GOI, Banks, Crop Insurance Companies and was approved by the Union Cabinet on 13<sup>th</sup> January, 2016.</p> <p>The comprehensive Operational Guidelines of the scheme have been released on 18<sup>th</sup> February, 2016 and the scheme has come into effect from 1<sup>st</sup> April, 2016 (Kharif 2016). The scheme provides for effective risk mitigation mechanism for all possible risks in the entire crop cycle right from the planning by the farmer to sow a particular crop to post-harvest. Farmers share of premium has been reduced to lowest ever wherein he has to pay only 1.5% of the sum insured for Rabi crops, 2% for Kharif crops and 5% for annual commercial and horticulture crops and the balance premium is paid by the Govt. The provision of capping on premium in the earlier scheme has been removed to ensure full compensation upto sum insured. This will specially benefit the farmers in the drought and other natural calamity prone areas. The scheme provides for leveraging technology for assessment of yield losses and for better administering and monitoring.</p>	The scheme has already come into operation from 1 <sup>st</sup> April, 2016 replacing NAIS and MNAIS.	Special emphasis has been laid on proper publicity and creation of awareness among the farmers and other stakeholders. (Copy of Operational Guidelines enclosed).
	Towards Self Sufficiency in Pulses- Create credible mechanism of pulses procurement at MSP	With a view to broad base the infrastructure for procurement of pulses at MSP, the Government has notified the FCI as one of the Central procurement agencies in addition to NAFED, SFAC and CWC. It is	As and when prices fall below MSP	The prices of all the pulses are ruling well above MSP at present. Hence procurement of pulses at

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		expected to utilise the infrastructure of FCI for ensuring proper procurement of pulses at MSP from the farmers with a view to incentivise farmers in taking up cultivation of pulses.		MSP through the Price Support Scheme is not being undertaken
<b>Good Governance Challenges and Opportunities</b>	Making Services Face-less, Paper-less, Cash-less - Electronic Service Delivery - Portals	A Central Crop Insurance Portal has been made functional for capturing all data related to crop insurance for dissemination of information to all stakeholders and better administration and monitoring of the crop insurance schemes.	Based on the provision of revised scheme/ PMFBY. Master data is being upgraded to digitize the notification to be issued by States.	-
	Maximum Governance - Digitize Government records for electronic workflow - GIS based Decision Support System for various applications using space technologies	To ensure reliable, accurate and faster flow of data related to yield estimation through Crop Cutting Experiments, an application has been devised which will be used by the Revenue Officers through handheld devices/smart phones wherein the geo referenced, date and time, stamped of images CCEs shall be captured along with the relevant data and immediately uploaded on the Central Server.	This forms part of the Operational Guidelines of the PMFBY and timeline for implementation are as under : Training of field level functionaries – May & June, 2016. Use of smart phone for capturing CCEs – 15 <sup>th</sup> August to 15 <sup>th</sup> October.	This will address the long standing grievances of farmers regarding the quality of the conduct of CCEs affecting the payment of compensation in times of natural calamities.
<b>Action Plan of Seeds Division</b>				
Energy Conservation and Efficiency	Provide 30 lakh solar based energy efficient water pumps by 2019 through a commercially viable (LED type) business model.	NSC to implement in its farms.	By 2017.	
Energy Conservation and Efficiency	Incentivize new energy efficient building to cover at least 30% constructions.	LEDs and 05 star appliances to be phased throughout in Krishi Bhawan.	By December, 2016.	

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	Existing Government buildings to reduce energy use by 25%.			
Farmer centric increase in Agriculture and allied sectors	Creation of 1.1 million hectare of additional irrigation potential in one year, 3.4 million over next 03 years.	Include large mechanized sprinkler systems such as the central pivot systems implemented by NSC in its farms under the PMKSY guidelines and popularize the same.		
	2 lakh solar pump-sets with Micro-irrigation.	NSC to put solar Pump-sets in its farms.	By 2017.	
	Popularization of climate resilient varieties.	Increase breeder seed availability of climate-resilient varieties by 20%.	By 2017.	
Accelerated Growth in the inclusion and equity	Investment in irrigation through solar pumps, sprinklers, drip, recycled water, command area development (2017).	Popularize central pivot irrigation systems under PMKSY.	By 2017.	
Good Governance – Challenges and Opportunities	Electronic Payment System Operational	Ensure Payment Gateway-DAC for all contracts and other services.	By December, 2016.	
	All subsidies to be through Aadhaar enabled Direct Benefit Transfer (DBT)	Implement this for seeds by deadline.	By December, 2017.	
	Simplified forms, preferably one page, available on line.  Issue Government Orders allowing self-declaration in lieu of affidavits except where mandated by law.	Already done.	--	
<b>Action Plan of Extension Division</b>				
Agriculture	Integrate Extension Services	Issue instructions for widening the scope of ATMA	6 months	

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		scheme by integrating extension services conducted by all Departments of Agriculture and Rural Development.		
<b>Action Plan of Information Technology Division</b>				
Accelerated Growth with inclusion and Equity	Under Technological Interventions: <b>Free Bundled Services: e-Kisan</b>	<p><b>e-Kisan</b> is enablement of a farmer in such a way that he/she is able to access or carry out all such activities by touch of a button on mobile:-</p> <p><b>(a) <u>Information &amp; Knowledge Transfer</u></b> A farmer should be able to download complete information about which crops are suited for his/her area as per ecological and economical conditions. He should be able to calculate inputs required based on targeted yield after feeding in basic inputs. Similar information and knowledge should also be made available for Horticulture, Animal Husbandry and fisheries sectors.</p> <p><b>(b) <u>Online procurement of Inputs</u></b> It will be endeavoured to enable farmers to procure all required inputs like Seeds, fertilizers and pesticides with multiple options with various choices and price ranges to choose from. All these would require suitable amendments in relevant acts/rules, both at the Central and States level.</p> <p><b>(c) <u>Post Harvest</u></b></p> <p>(i) <b><u>Marketing</u></b> As on date commodity prices of all markets in a radius of 50 Kms is being made available to the farmers so that he/she can take informed decisions as to when &amp; where to sell their produce. National Agriculture Market (NAM) is being implemented as a pan-India e-market initially in 585 selected markets by 2017-18 and will be rolled out in States on demand and on fulfilment of reforms in their APMC acts. Once implemented a</p>	2020	

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		<p>farmer would be able to sell his/her produce from the interface to be provided on 'e-Kisan' mobile app through NAM.</p> <p>(ii) <b>Storage</b> Presently information about various storage facilities is being made available as a static information, however, it is planned to make a virtual grid of different types of storage facilities available across states and the country, their tariff rates and availability etc. so that anyone is able to book his/her space online</p> <p><b>(d) Action Plan</b> 'Kisan Suvidha' mobile app launched recently by hon'ble PM is a first step in this direction and it caters for certain basic information like weather, market prices, advisories and Pests/diseases etc. However, this will be strengthened further so as to include all actions as envisaged above. It is planned to provide a fully ready "e-Kisan" app by 2020, keeping in view various constraints in terms of feeding of data by different States/UTs and carrying out required changes in the existing Acts/rules, both at the Centre and State levels for allowing sale of commodities, fertilizers and pesticides online.</p>		
Good Governance Challenges and Opportunities	Digital Locker	<p>1. This is a secure cloud based platform for storage, sharing and verification of documents and certificates. It uses authenticity services of Aadhar.</p> <p><b>Components</b></p> <p>a. <b>Repository.</b> Is a collection of e-documents which are uploaded by issuers in a standard format.</p> <p>b. <b>Access Gateway</b> provides secure online mechanism for requesters to access e-documents from various repositories in real time using e-documents URL.</p>	It is planned to commence this in the MOA& FW by end of 2016 and by 2018 in all States/UTs.	

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		<p>2. <b>Action Plan</b> Different components of Ministry of Agriculture &amp; Farmers Welfare and States/UTs issue large number of Registration certificates, Permissions, licenses etc. in paper form. All components of the ministry are being asked to identify such documents or certificates which could be issued as e-documents and then kept in Digital e-Locker.</p> <p>IT Division would facilitate all components of the ministry and States/UTs in terms of training and hosting of documents in Digital Locker.</p> <p>It is planned to commence this in the MOA&amp; FW by end of 2016 and by 2018 in all States/UTs.</p>		
Employment Generation Strategies	Deemed Registration of applications submitted electronically	<p>Large numbers of citizens submit applications for issuance of licenses to produce or sell agriculture related inputs (seeds, fertilizers &amp; pesticides) &amp; products/services at Central Govt. and States' level. These contribute towards employment generation in the country.</p> <p><b>Action Plan</b> Only very few of these permissions/certificates or licenses are issued online and mostly follow tedious paper work. It is planned to change over to complete online system of receipt &amp; issuance of these by end 2017 for all Central govt certificates/permissions and all States/UTs will also be persuaded to follow suit by end of 2018.</p> <p><b>Model Application.</b> A central model application will be developed which shall give options to citizens to opt for different types of permissions/licenses/certificates to choose from. On submission of requisite documents/information &amp; fees etc, they will be able to download required</p>	Online system of receipt & issuance by end 2017 for all Central govt certificates/permissions and all States/UTs will also be persuaded to follow suit by end of 2018.	

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		<p>certificate/license online.</p> <p><b>Constraints</b> Large number of changes will be required in the existing Govt. orders &amp; rules to issue print and acceptance of online certificates.</p>		
Farmer Centric Issues In Agriculture And Allied Sectors	<p>1. Development of Farmer Friendly Mobile Apps</p> <p>2. Creative use of Mobile &amp; Digital Technologies</p> <p>3. Creation of Open Data Platform</p>	<p><b>a.</b> Efforts are being made to develop mobile apps so that complete information which is available through web today, could also be made available through easy to operate mobile apps. In this direction, IT Division has already developed &amp; launched 05 apps and other 02 are under development. “<b>KisanSuvidha</b>” and “<b>PusaKrishi</b>” apps were launched by Hon’ble PM and AM during inauguration and closing ceremonies of Krishi Unnati Mela. It is planned to develop 500 apps in 1<sup>st</sup> year and take this number to 2000 in next three years.</p> <p><b>b.</b> A comprehensive policy on development of mobile apps on all agriculture and allied sector topics is also under submission and will be finalized in one month. Meanwhile detailed letters outlining the methodology to be followed have already been written to Animal Husbandry Department, ICAR, all Divisions and States/UTs.</p> <p>Use of Bluetooth and other mobile technologies is being propagated amongst farmers &amp; officials of States/UTs through workshops, seminars and VCs. An audio visual and available literature are being shared with other States/UTs.</p> <p>The state has been asked to propagate this in other districts also using funds under RKVY or NeGP-A. Once successful it will be offered to all other states/UTs with similar issues of internet and</p>	<p>500 apps by March, 2017 and 2000 apps by March, 2019.</p> <p>One month</p> <p>March, 2018</p>	

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		<p>communications.</p> <p>More than 400 datasets of Agriculture have already been shared on data.gov.in. More datasets which could be shared on open platform needs to be identified by various divisions of DAC&amp;FW. In this direction detailed letters have been written to all divisions. Once identified, they would be guided to upload data sets on a common platform, which could be accessed by free lance developers and researchers.</p>		
<b>Action Plan of Mechanization &amp; Technology Division</b>				
Farmer Centric Issues in Agriculture & Allied Sectors – Drought Proofing Agriculture – PMKSY in Rainfed Areas	<p>2 lakh solar pumps-sets with micro irrigation</p> <ul style="list-style-type: none"> <li>- Farmers Contribution 5%</li> <li>- MNRE Subsidy 30%</li> <li>- Loan by Power Company 65%</li> </ul>	<p>1) A new Centrally Sponsored Scheme (CSS) for installation of 10 lakh pump-sets over the next five years w.e.f. the financial year 2016-17 has been proposed.</p> <p>2) State Department of Agriculture to implement the scheme on a business model where Central Government would provide the financial assistance to the extent of 30% of the benchmark cost of Solar PV Pumping System, 5% cost will be borne by the beneficiaries and remaining 65% would be met by the State Governments through loan from the Nationalized Banks and Rural Infrastructure Development Fund (RIDF) of NABARD.</p> <p>3) The amount of loan and interest thereon will be paid by the State Governments from the additional Cess fund collected by way of levying additional 10 paisa per kWh, over and above the existing unit rate on the electricity consumed in Industrial and Commercial Sectors.</p>	The scheme can be started after completing all the required procedural formalities in the last quarter of financial year 2016-17.	



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		<p>4) The total estimated outlay of the scheme for 10 lakh pump-sets is Rs. 60,000 crore. Central share- Rs. 18000 crore Beneficiary share - Rs. 3000 crore Loan contribution – Rs. 39000 crore</p> <p>5) Hon'ble Minister for Agriculture &amp; Farmers Welfare has accorded in-principal approval for the proposed scheme.</p> <p>6) The concept note has been forwarded to the Chief Secretaries of State Governments/UTs requesting consent to implement the scheme on proposed sharing of funds.</p> <p>7) Draft EFC of the scheme has been submitted to IFD for comments and approval.</p>		
<b>Action Plan of Integrated Nutrition Management Division</b>				
<b>Soil Health Card (SHC) Scheme</b>	Time bound delivery of the 14 crore Soil Health Cards through analyzing 2.53 crore samples for each cycle in two years due to inadequacy of existing soil testing labs.	<p>In order to develop a network of soil laboratories across the country, both in public and private sectors, guidelines have been issued for implementation through State Governments and Capital Investment Subsidy Scheme (CISS) through NABARD. Modalities for use of college &amp; school labs for soil analysis have also been issued under this scheme.</p> <p>It is proposed to set up 3000 model retail outlets in form of mini labs at Block level in 3 years through Fertilizer Companies with soil, seed, and fertilizer testing facility. A total of 500 outlets will be started in 2016-17.</p> <p>Development of innovative handheld devices through start-ups: There is a need for special products such as Kisan Mobile Phone, which cater to the requirements</p>	3 years (2016-17 to 2018-19)	

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		<p>of farmers to receive the information related to various farming activities &amp; interacting with agriculture experts. Start-ups could take a lead in this direction.</p> <p>Employment potential will be created for 30000 Skilled Soil Samplers and 10,000 Skilled Technicians and Lab. Assistants in Soil Testing Labs through skill development modules.</p>		
<b>Strengthening Supply Chain of Fertilizers</b>	Timely availability and balanced use of fertilizers based on recommendations generated through soil health cards.	<p>Promotion of on farm input production units in convergence with MGNREGA:</p> <p>Apart from existing schemes, 100% Financial assistance under NREGS is proposed for promotion of one million compost pits and Azolla tanks for on farm production of organic manures @ Rs.10,700 per unit. These will include vermi-compost, NADEP compost, Azolla fern / blue green algae tanks for green manure.</p> <p>It is estimated that the proposed size of composting tank (3.6 x0.76 x0.6m) will produce 1.5 tons compost per annum that can enhance productivity of 0.5 hectare land.</p> <p>One million composting tanks will facilitate production of 15,00,000 tons of compost which will increase the productivity of nearly 5 lakh hectare land by applying compost @3tons per hectare.</p> <p>Training and demonstration on composting will be taken up on a large scale as part of the scheme. The scheme will be started during kharif campaigns across the country.</p> <p>This scheme for addition of organic sources will not only maintain soil health and its productivity but also enable farmer to save fertilizer application up to 20%.</p>	1 year (2016-17)	
<b>Action Plan of Agriculture Marketing Division</b>				

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<b>Farmer Centric Issues in Agriculture and allied Sectors</b>	Remunerative prices and market support- <b>National Agriculture Market (NAM)</b>	NAM to be implemented as a National e marketing platform which will integrate 585 regulated wholesale mandis to facilitate e trading across the country. NAM has been envisaged as a measure to usher market reform by way of adoption of uniform marketing procedures across mandis, greater transparency, access to market information and reduction in unnecessary levels of intermediation to enable the farmer to access a larger and more competitive market for his produce.	(i) By September, 2016- Roll out in 200 mandis (ii) By March, 2017- Roll out in 200 mandis (iii) By March, 2018- Roll out in 185 mandis	The success of the e platform is contingent on the willingness and pace of the States to adopt market reforms in their APMC Acts as well as receptivity of the mode among the stakeholders.
<b>Action Plan of Rainfed Farming System Division</b>				
Farmers Centric Initiatives for Agriculture & Allied Sectors	<b>Drought Proofing Agriculture – PMKSY in Irrigated Areas</b> <u>Problem:</u> <ul style="list-style-type: none"> <li>Only 47% area is irrigated</li> <li>23% gap between irrigation potential created and utilized</li> <li>Shortage of funds for AIBP <ul style="list-style-type: none"> <li>Requirement Rs. 29,000 Crore for 46 projects</li> <li>Allocation Rs. 3000 crore under AIBP</li> </ul> </li> </ul> <u>Solution:</u> <ul style="list-style-type: none"> <li>Create a dedicated fund in NABARD through Tax free</li> </ul>	<ul style="list-style-type: none"> <li>Amount of Rs. 4510 crore including supplementary grant of Rs. 2510 crore for AIBP and PMKSY: Har Khet Ko Pani have been provisioned for 2015-16 (RE) in Ministry of Water Resources, River Development &amp; Ganga Rejuvenation (MoWR, RD &amp; GR).</li> <li>As per the Budget Speech 2016-17, implementation of 89 irrigation projects under AIBP, which have been languishing, will be fast tracked. This will help to irrigate 80.6 lakh hectares. These projects require Rs. 17000 crore next year and Rs. 86500 crore in the next five years. It has been targeted to complete 23 of these projects before 31<sup>st</sup> March, 2017.</li> <li>A dedicated Long Term Irrigation Fund will be created in NABARD with an initial corpus of about Rs. 20000 crore. To achieve all these, a total provision of Rs. 12517 crore has been made through budgetary support and market borrowings in 2016-17.</li> </ul>		

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	<b>Drought Proofing Agriculture – PMKSY in Rainfed Areas</b> Problem: <ul style="list-style-type: none"> <li>Poor conservation of rain water</li> </ul> Solution: <ul style="list-style-type: none"> <li>5 lakh ponds/dug-wells every year from MGNREGA</li> <li>Cost: Rs. 8000 Crore</li> <li>2 lakh solar pump-sets with Micro-irrigation               <ul style="list-style-type: none"> <li>Farmers' Contribution 5%</li> <li>MNRE subsidy 30%</li> <li>Loan by Power Company 65%</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>The solar pump programme is being looked after by M&amp;T Division. Hence, inputs may be obtained from them.</li> </ul>		
<b>Action Plan of Crops Division</b>				
Farmer centric issues in agriculture and allied sectors	1.Towards self-sufficiency in Pulses	1. Promotion of newly released High Yielding Varieties(HYV) of Pulses <ol style="list-style-type: none"> <li>Increase Breeder Seed Production</li> <li>Creation of Seed Hubs at SAU's and KVK's</li> <li>Seed minikits distribution</li> </ol> 2. Technology demonstration through KVKs 3. Promotion of INM and IPM 4. Targeting rice fallow area 5. Provision of irrigation for pulses through PMKSY 6. Loan against warehouse receipts 7. Attractive MSP and Procurement of Pulses 8. Monitoring of implementation of pulses development programme headed by Additional	Pulses production target of 21 million tonnes in 2017-18 and 24 million tonnes in 2020-21	Detailed plan already sent.

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		Secretary, DAC&FW		
	2. Bringing Green Revolution to Eastern India (BGERI)	1. Promotion of newly released High Yielding Varieties (HYVs)/ hybrid of Paddy 2. Promotion of stress tolerant varieties of paddy 3. Promotion of SRI technique 4. Bringing rice fallow under pulses and oilseeds 5. A new sub-scheme 'Targeting Rice Fallow Area in six eastern states to promote pulses/oilseeds with annual allocation of Rs. 200 Crores with central share of Rs. 130 Crores from 2016-17 on wards has been approved by Honourable AM., RKVY Division has been requested to provide funds. Increase allocation under NFSM and NMOOP will also bring rice fallow area under cultivation of oilseeds and pulses	One million ha rice fallow areas will be brought under cultivation from 2017-16 to 2018-19.	
<b>Action Plan of Rastriya Krishi Vikas Yojana (RKVY) Division</b>				
Good Governance Challenges and Opportunities	1. All subsidies to be through Adhaar enabled Direct Benefit Transfer (DBT).	All States Governments will be asked to transfer subsidy to individuals through Adhaar enabled Direct Benefits Transfer (DBT) system in respect of RKVY projects involving individual beneficiaries.	1-2 Months	
	2. All Government Departments to list, review, re-engineer their processes and get them independently certified.	Governments Departments in all States will be asked to list, review, re-engineer their processes and get them certified independently.	1-2 Months	
	3. Third Party monitoring of schemes-ongoing basis	Governments of India will appoint third party monitoring agencies to get selected schemes/projects under RKVY Monitored.	3-6 Months	

	4. Link Central assistance with filling up cutting-edge posts in Health/Education/ etc. Departments	The Central Assistance to the States under RKVY will be linked to filling up of cutting edge posts in Agricultural Departments of States.	1-2 Months	
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<b>Action plan of Horticulture Division</b>				
Farmer Centric Issues In Agriculture And Allied Sectors	Reduce Post – Harvest losses and promote Food Processing	<ul style="list-style-type: none"> <li>State Horticulture mission shall be directed to allocate at least 25% of total annual funds for Post harvest management intervention under MIDH</li> </ul>	Ongoing	While finalising the annual action plan of the state Horticulture mission it shall be ensured that atleast 25% of the funds are invested for Post harvest management interventions under MIDH
		<ul style="list-style-type: none"> <li>Assistance for processing of perishable horticultural prod</li> </ul>	Ongoing	Assistance for food processing of horticultural produce are provided under MIDH for NE and hilly states
		<ul style="list-style-type: none"> <li>FPOs, FIGs, SHGs, etc falling under the catchment zone of Mega Food Parks and cold chain projects are made aware of and encouraged to use these facilities</li> </ul>	Ongoing	
		<ul style="list-style-type: none"> <li>Study/survey conducted for assessment of additional capacities in the cold chain infrastructure</li> </ul>	Already completed	NCCD-NABCONS study on gap in cold chain capacity was carried out in 2014-15; necessary actions on the report are being taken
		<ul style="list-style-type: none"> <li>Non-conventional energy for powering cold chain are being promoted</li> </ul>	Ongoing	
		<ul style="list-style-type: none"> <li>Additional funds for creation of cold chain facilities have been requested</li> </ul>		Task force on cold chain formed by the PMO in 2014 recommended for

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<b>Action plan of Horticulture Division</b>				
				2100 crores for MIDH for creation of 5 MMT of cold chain/cold storage facilities
		<ul style="list-style-type: none"> <li>Higher synergy with MOFPI and other related agencies for coordinated interventions in PHM-cold chain sector</li> </ul>	Ongoing	Cost norms and pattern of assistance for cold chain scheme of MOFPI is being aligned to MIDH of DAC. Officials of both the ministries are included in the project approval committees of both the ministries.
		<ul style="list-style-type: none"> <li>Integrated cold chain availability platform (ICAP)- unified portal providing government assisted cold chain projects launched</li> </ul>	January 2016	Already launched on the NHB portal <a href="http://www.nhb.gov.in">www.nhb.gov.in</a>