

સંશોધન વૈજ્ઞાનિક(કપાસ)ની કચેરી  
મુખ્ય કપાસ સંશોધન કેન્દ્ર  
નવસારી કૃષિ યુનિવર્સિટી  
અઠવા ફાર્મ, સુરત-૭



સંસ્કૃત શ્લોક

NAVSARI AGRICULTURAL UNIVERSITY

સ્વયંભૂ જાહેર કરાયેલી માહિતી  
(પ્રો-એક્ટીવ ડિસ્ક્લોઝર)  
પરિચય ગ્રંથ

માહિતી અધિકાર અધિનિયમ-૨૦૦૫  
પ્રકરણ-૨, કલમ-૪(૧)(ખ)

તા.૦૧.૦૫.૨૦૨૨ ડની સ્થિતિ

**માહિતીનો અધિકાર અને જાહેર સત્તામંડળોની જવાબદારીઓ કલમ-૪(૧)બ  
(પ્રોએક્ટીવ ડીસ્ક્લોઝર)**

<b>(૧) પોતાના વ્યવસ્થાતંત્ર, કાર્યો અને ફરજોની વિગતો;</b>			
(૧)	નવસારી કૃષિ યુનિવર્સિટીમાં સમાવેશ સાત જીલ્લાઓના કપાસનાં ખેડૂતોની જરૂરીયાત મુજબની સંશોધનની કામગીરી, તેનું સંકલન અને ખેડૂતોના પ્રશ્નોનાં નિરાકરણની કામગીરી		
(૨)	ગુજરાત રાજ્યમાં આવેલ તમામ કપાસ સંશોધન કેન્દ્રોની કામગીરીઓનું આયોજન, સંકલન, માર્ગદર્શન અને મોનીટરીંગ તેમજ રાષ્ટ્રીય કક્ષાએ આ પ્રકારની કામગીરીનું સંકલન અને તેનો અહેવાલ રજૂ કરવો		
(૩)	રાજ્ય સરકારશ્રી, કેન્દ્ર સરકારશ્રી અને અમુક ખાનગી સંસ્થાઓને વિવિધ સંશોધન યોજનાઓની દરખાસ્તો તૈયાર કરી યોજનાઓ મંજૂર કરાવવાની તમામ પ્રકારની પ્રવૃત્તિઓ		
(૪)	યુનિટ હેઠળ ચાલતી વિવિધ આઈસીએઆર, પ્લાન, નોન પ્લાન સંશોધન યોજનાઓ તથા તેમાં ફરજ બજાવતા અધિકારી, કર્મચારીઓને વહિવટી, હિસાબી અને તાંત્રિક બાબતોનું માર્ગદર્શન		
(૫)	સંશોધન ફાર્મ ખાતે જાહેર માળખાકીય સવલતો અને તેનાં રેકર્ડની જાળવણી		
(૬)	નવસારી કૃષિ યુનિવર્સિટી, નવસારી કચેરીનાં માર્ગદર્શન મુજબ મેગાસીડ પ્રોજેક્ટ હેઠળ બીયારણ ઉત્પાદન અને વેચાણ		
<b>(૨) પોતાના અધિકારીઓ અને કર્મચારીઓની સત્તા અને ફરજો;</b>			
<b>ક્રમ</b>	<b>અધિકારીશ્રી/ કર્મચારીશ્રીનું નામ</b>	<b>સત્તા</b>	<b>ફરજ</b>
૧	ડો. એમ.સી. પટેલ સંશોધન વૈજ્ઞાનિક (કપાસ) બ.સ.૫૦૦૯	<ul style="list-style-type: none"> <li>• ગુજરાત રાજ્યની કૃષિ યુનિવર્સિટીનાં સત્તા સોંપણીના નિયમો-૨૦૧૧ અંતર્ગત મુખ્ય કપાસ સંશોધન કેન્દ્ર, સુરતખાતે હેડ ઓફ યુનિટ તરીકે વહીવટી અને નાણાકીય સત્તાઓનો હવાલો</li> <li>• અત્રેનાં યુનિટનાં જાહેર માહિતી અધિકારીતરીકેનો હવાલો</li> <li>• કપાસની આઈસીએઆર યોજનાની સંશોધન અને વહીવટની કામગીરી</li> <li>• જુદી જુદી સમિતીઓમાં જે તે ઓથોરીટી દ્વારા સભ્યતરીકેની કામગીરી</li> </ul>	<ul style="list-style-type: none"> <li>• મુખ્ય કપાસ સંશોધન કેન્દ્ર, સુરત કચેરીનો સમગ્ર વહીવટ, સંશોધન અને માર્ગદર્શન તથા નિરીક્ષણની કામગીરી</li> <li>• આઈસીએઆર, સીઆઈસીઆર અને સ્ટેટ ડીપાર્ટમેન્ટ ઓફ એગ્રીકલ્ચર સાથે ગુજરાત રાજ્યના કપાસ સંશોધન અને વિસ્તરણનું રાજ્ય/રાષ્ટ્રીય કક્ષાએ સંકલન કરવું.</li> <li>• ગુજરાત રાજ્યની જુદી જુદી કૃષિ યુનિવર્સિટીનાં કપાસ સંશોધન કેન્દ્રો સાથે કપાસ સંશોધન અને વિસ્તરણનું સંકલન કરવું/ મોનીટરીંગ કરવું અને સંકલિત સંશોધન અહેવાલ તૈયાર કરવા.</li> <li>• જાહેર માહિતી અધિકારી તરીકેની કામગીરી</li> <li>• ગુજરાત રાજ્યનાં કપાસ ઉગાડતાં જીલ્લાઓમાં ટેકનોલોજીનો પ્રચાર/ પ્રસાર કરવો અને કપાસ પાકનો સ્ટેટ એગ્રીકલ્ચર પ્લાન તૈયાર કરાવવો.</li> <li>• કપાસનાં ખેડૂતો માટે તાલીમ અને નિદર્શન આયોજન કરવા</li> <li>• ફાર્મ અને કેમ્પસ ડેવલપમેન્ટની કામગીરી</li> <li>• વિદ્યાર્થીઓ/ મુલાકાતીઓને માર્ગદર્શનની કામગીરી તમામ બજેટનાં ઓડિટની કામગીરી</li> <li>• મેમ્બર સેક્રેટરી તરીકે NAU IBSCની કામગીરી</li> <li>• કપાસ સંશોધન કેન્દ્ર, સુરતનાં તાબા હેઠળનાં દસ્તાવેજી પુરાવાની જાળવણી</li> </ul>
૨	ડો. જી.ઓ.ફલ્કુ સહ સંશો. વૈજ્ઞા.	નીલ	<ul style="list-style-type: none"> <li>• સંકર કપાસ વિભાગ તથા દેશી કપાસ વિભાગના વિભાગીય વડા તરીકેની કામગીરી</li> </ul>

	(સંકર કપાસ) બ.સ. ૫૦૦૯		<ul style="list-style-type: none"> <li>● સંકર કપાસ તથા દેશી કપાસ વિભાગના અખતરાઓની સંપૂર્ણ કામગીરી</li> <li>● કપાસના બીયારણ પ્લોટોમાં રોગીંગ અને મોનીટરીંગની કામગીરી</li> <li>● કપાસની બહાર પાડેલ સંકર જાતોના માતૃપિતૃ બીજ તૈયાર કરાવવાની કામગીરી</li> <li>● કપાસનાં સીડ પ્રોડક્શન પ્લોટ (માતૃબીજ) ની કામગીરી</li> <li>● કપાસનીવિવિધ જાતોની નર્સરીની જાળવણી</li> <li>● બીટી કપાસની જાતોની ચકાસણી</li> <li>● કપાસની સંકર જાતો વિકસાવવાની કામગીરી</li> <li>● દેશી કપાસનાં અખતરાઓની કામગીરી</li> <li>● દેશી કપાસનાં જર્મપ્લાઝમની જાળવણી</li> <li>● તુવેરનાં સીડ પ્રોડક્શન પ્લોટની કામગીરી</li> <li>● મ્યુઝીયમની જાળવણી અને તેનાં અદ્યતનની કામગીરી</li> <li>● કૃષિ પ્રદર્શન માટે અદ્યતન સામગ્રી તૈયાર કરવાની કામગીરી</li> <li>● કપાસનાં વાર્ષિક રીપોર્ટ કંપાઈલેશનની કામગીરી</li> <li>● કપાસનાં અખતરા ફોર્મ્યુલેશનની કામગીરી</li> <li>● પીજી વિદ્યાર્થીઓને માર્ગદર્શનની કામગીરી</li> </ul>
૩	નીકીતા એસ.ડાભી ખેતી મદદનીશ બ.સ. ૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● તાંત્રિક શાખામાં પત્ર વ્યવહાર તથા તેને લગતી ફાઈલોની જાળવણી</li> <li>● તાંત્રિક શાખાની મંજૂરી રજીસ્ટર નિભાવઅને જાળવણી</li> <li>● કચેરીનાં વાહનોની લોગબુક તથા ફાસ્ટટેગ રજીસ્ટર નિભાવવાની કામગીરી</li> <li>● પ્રવાસ ડાયરી મંજૂરી અંગેની કામગીરી</li> <li>● પાક યોજના મંજૂરી અંગેની કામગીરી</li> <li>● તાંત્રિક શાખા તથા લાઈબ્રેરીનાં ડેડસ્ટોક અને તેને લગતા રજીસ્ટર નિભાવવાની કામગીરી</li> <li>● ડેડસ્ટોક તથા ઈલેક્ટ્રોનિક સાધનો રીપેરીંગનાં રજીસ્ટર નિભાવવાની કામગીરી</li> <li>● એગ્રોનોમી વિભાગનાં મજૂરોનાં મસ્ટરની કામગીરી તથા મજૂરોનાં સુપરવીઝનની કામગીરી</li> <li>● એગ્રોનોમી વિભાગનાં એઆઈસીઆરપી અખતરાઓની કામગીરી</li> <li>● એગ્રોનોમી વિભાગનાં અખતરાઓનાં લે-આઉટ, પાક યોજના તેમજ સોઈંગ લીસ્ટ બનાવવું</li> <li>● દરેક અખતરાઓમાં સમયાનુસાર ખેતીકાર્યોની કામગીરી અને અખતરાના રેકર્ડ નિભાવવાની કામગીરી</li> <li>● એગ્રોનોમી વિભાગનાં રોજમેળ, ખાતાવહી, ઉત્પાદન રજીસ્ટરની નિભાવણી</li> </ul>
૪	ભાવના જે. મેવાડા ખેતી મદદનીશ બ.સ. ૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● કેમેસ્ટ્રી/ ફીઝીયોલોજી વિભાગનાં ડેડસ્ટોકને લગતી કામગીરી</li> <li>● કેમેસ્ટ્રી/ ફીઝીયોલોજી વિભાગનાં અખતરાઓનાં લે-આઉટ, પાક યોજના તેમજ સોઈંગ લીસ્ટ બનાવવું.</li> <li>● કેમેસ્ટ્રી/ ફીઝીયોલોજી વિભાગનાં મજૂરોનાં મસ્ટરની કામગીરી તથા મજૂરોનું સુપરવીઝનની કામગીરી</li> <li>● દરેક અખતરાઓમાં સમયાનુસાર ખેતીકાર્યોની કામગીરી</li> </ul>

			<ul style="list-style-type: none"> <li>● અખતરાઓ તેમજ લેબમાં અવલોકનો લેવામાં મદદ</li> <li>● ઈન્ડો-અમેરીકન વિભાગનાં મજૂરોનાં મસ્ટરની કામગીરી તથા મજૂરોનું સુપરવીઝનની કામગીરી</li> <li>● દરેક અખતરાઓમાં સમયાનુસાર ખેતી કાર્યોની કામગીરી</li> <li>● ઈન્ડો-અમેરીકન વિભાગનાં ડેડસ્ટોક, સ્ટોર લેજર જનર્લ નિભાવવાને લગતી કામગીરી</li> <li>● ઈન્ડો-અમેરીકન વિભાગનાં તથા સાયટોલોજી વિભાગનાં અખતરાઓનાં લે-આઉટ, પાક યોજના તેમજ સોઈંગ લીસ્ટ બનાવવું.</li> <li>● એગ્રસ્કો-એઆઈસીસીઆઈપી રીપોર્ટ/ રીલીઝ પ્રપોઝલની કામગીરીમાં મદદ</li> <li>● દરેક અખતરાઓમાં સમયાનુસાર અવલોકન તથા ડેટા એનાલીસીસની કામગીરી</li> <li>● તંતુ ચકાસણી માટે નમુના તૈયાર કરવાની કામગીરી</li> </ul>
૫	દિપાલી એમ.બડવા ખેતી મદદનીશ બ.સ.૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● સંકર કપાસ વિભાગનાં મજૂરોનાં મસ્ટરની કામગીરી તથા મજૂરોનાં સુપરવીઝનની કામગીરી</li> <li>● સંકર કપાસ વિભાગનાં ડેડસ્ટોકને લગતી કામગીરી</li> <li>● સંકર કપાસ વિભાગનાં અખતરાઓનાં લે-આઉટ, પાક યોજના તેમજ સોઈંગ લીસ્ટ બનાવવું.</li> <li>● મજૂરોનું સુપરવીઝનની કામગીરી</li> <li>● દરેક અખતરાઓમાં સમયાનુસાર ખેતી કાર્યોની કામગીરી</li> <li>● દેશી વિભાગમાં ખેતી મદદનીશ તરીકે વધારાની કામગીરી</li> </ul>
૬	જીજ્ઞાશા એસ. ગોહિલ ખેતી મદદનીશ બ.સ.૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● કીટકશાસ્ત્ર વિભાગનાં મજૂરોનાં મસ્ટરની કામગીરી તથા મજૂરોનું સુપરવીઝનની કામગીરી</li> <li>● દરેક અખતરાઓમાં સમયાનુસાર ખેતીકાર્યોની કામગીરી</li> <li>● ડેડસ્ટોકને લગતી કામગીરી, પાક યોજનાની કામગીરી</li> <li>● કીટકશાસ્ત્ર વિભાગનાં ડેડસ્ટોકને લગતી કામગીરી</li> <li>● કીટકશાસ્ત્ર વિભાગનાં અખતરાઓનાં લે-આઉટ, પાક યોજના તેમજ સોઈંગ લીસ્ટ બનાવવું</li> <li>● દરેક અખતરાઓમાં સમયાનુસાર ખેતીકાર્યોની કામગીરી</li> <li>● લેબ કામગીરીમાં મદદ</li> </ul>
૭	જીજ્ઞેશ કે. ભરડા ખેતી મદદનીશ બ.સ.૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● મકાન રજીસ્ટર તથા ફાર્મનાં તમામ પ્લોટોની દેખરેખની કામગીરી</li> <li>● ક્વાર્ટર્સ તથા ગેસ્ટ હાઉસની કામગીરી</li> <li>● ફાર્મના લેબર મસ્ટરની કામગીરી, નહેરને લગતી તમામ કામગીરી</li> <li>● વેધશાળાનાં અવલોકનની કામગીરી</li> </ul>
૮	શ્રી એસ.બી.ચૌધરી સીનીયર કલાર્ક બ.સ.૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● અસ્પી શકીલમ બાયોટેકનોલોજી ઈન્સ્ટીટ્યુટ, નક્યુ, સુરત ખાતે ફરજ બજાવે છે.</li> </ul>
૯	શ્રીમતી જે.એચ.પટેલ સીનીયર કલાર્ક બ.સ.૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● વહીવટને લગતી સંપૂર્ણ કામગીરી</li> <li>● ક્વાર્ટર ફાળવણી, ખાનગી અહેવાલો, JRF/SRF ની ભરતી પ્રક્રિયામાં મદદ</li> <li>● અંદાજીત બજેટ બનાવવાની કામગીરી</li> </ul>

			<ul style="list-style-type: none"> <li>• ઓડિટ અંગેની કામગીરી</li> <li>• કેન્દ્રોનાં જાહેર માલ-મિલ્કતનાં લાઈટબીલ, વેરાબીલનાં રજીસ્ટરની કામગીરી</li> <li>• વહીવટી/ હિસાબી શાખાની ખરીદી અને તેને લગતા મંજૂરી રજીસ્ટર</li> <li>• GeM મારફત ખરીદી મંજૂરીની કામગીરી</li> <li>• ટેકનીકલ સંવર્ગના પ્રોટેક્ટીવ વેર્સ તથા વર્ગ-૪ના ગણવેશને લગતી કામગીરી</li> <li>• તમામ યોજનાના બજેટોની કામગીરી/AUC</li> </ul>
૧૦	કુ.હિરલ ટાંક જી.કલાર્ક બ.સ.૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>• પગાર બીલ</li> <li>• પી.એફ. દરેક પેશગી રજીસ્ટરો નિભાવવાની કામગીરી</li> <li>• ઈનવર્ડ, આઉટવર્ડ, સ્ટેશનરી</li> <li>• ટીએબીલ</li> <li>• આઈ.ટી./ પી.ટી.ને લગતી સંપૂર્ણ કામગીરી</li> </ul>
૧૧	મિતુલ પી. અવૈયા જી.કલાર્ક બ.સ.૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>• કેશીયર તરીકેની કામગીરી</li> <li>• બેંકને લગતી તમામ કામગીરી</li> <li>• ડેડસ્ટોકને લગતી તમામ કામગીરી</li> <li>• પેડીસી/ એનપીડીસી બીલને લગતી સંપૂર્ણ કામગીરી</li> <li>• PFMSને લગતી કામગીરી</li> </ul>
૧૨	શ્રી બી.બી.ચૌધરી પટાવાળા બ.સ.૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>• કીટકશાસ્ત્ર/ રોગશાસ્ત્ર શાખામાં પટાવાળા તરીકેની કામગીરી અને કીટકશાસ્ત્ર પ્રયોગશાળામાં ચાલતી કામગીરીઓમાં મદદ</li> </ul>
૧૩	શ્રી પી.જી.સોનેરી લેબ બોય બ.સ.૫૦૦૯	નીલ	<ul style="list-style-type: none"> <li>• કેમેસ્ટ્રી વિભાગમાં જમીન તથા છોડનાં નમુનાના પુથ્યકરણની કામગીરીમાં મદદ</li> </ul>
૧૪	ડો. એચ.આર.દેસાઈ સહ સંશોધન વૈજ્ઞાનિક (કીટકશાસ્ત્ર) બ.સ.૧૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>• પાક સંરક્ષણ વિભાગનાં વિભાગીય વડા તરીકે કામગીરી</li> <li>• કીટકશાસ્ત્ર વિભાગનાં બ.સ.૧૨૦૦૯ મલ્ટી ડીસીપ્લીનરી અખતરાઓની કામગીરી</li> <li>• મદદનીશ જાહેર માહિતી અધિકારી તરીકેની કામગીરી</li> <li>• સંશોધન ફાર્મ ખાતે કીટ નિયંત્રણ અંગે માર્ગદર્શન અને સુપરવીઝનની કામગીરી</li> <li>• એગ્રો એડવાઈઝરી અન્વયે કીટ નિયંત્રણ માટે એડવાઈઝરી</li> <li>• અધર એજન્સી પ્રોજેક્ટની કીટકશાસ્ત્રને લગતી કામગીરી (એનએફએસએમ-આઈઆરએમ, બીઆરએલ-૧-બાયોસીડ પ્રોજેક્ટ, આઈસીએઆર, ડીએજી બીટી, એસએયુ બીટી પ્રોજેક્ટ)</li> <li>• પીજી વિદ્યાર્થીઓ/ મુલાકાતીઓને માર્ગદર્શનની કામગીરી</li> <li>• આઈ-કિસાન સેલ હેઠળ કપાસ પાકનાં જીવાતનાં પ્રશ્નો બાબત સલાહ</li> </ul>
૧૫	ડો. એમ.એમ.પટેલ સહ સંશોધન વૈજ્ઞા. (એગ્રોનોમી) બ.સ.૧૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>• ફાર્મનાં વડાશ્રી તથા એગ્રોનોમી વિભાગનાં વડા તરીકેની કામગીરી</li> <li>• એનએફએસએમ પ્રોજેક્ટ અંતર્ગત પ્રોજેક્ટ કોઓર્ડીનેટર તરીકેની કામગીરી</li> <li>• પીજી વિદ્યાર્થીના માર્ગદર્શનની કામગીરી</li> </ul>

			<ul style="list-style-type: none"> <li>• ઉપાડ અને ચુકવણા અધિકારી તરીકેની કામગીરી</li> <li>• સીસીઆઈ પ્રોજેક્ટ અંતર્ગત જીલ્લા નોડલ તરીકેની કામગીરી</li> </ul>
૧૬	શ્રી ડી.એમ.પટેલ મદદ. સંશો. વૈજ્ઞા. (બ્રીડીંગ) બ.સ. ૧૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>• ઈન્ડો-અમેરીકન કપાસ વિભાગના વિભાગીય વડા તરીકેની કામગીરી</li> <li>• બજેટ સદર-૨૦૦૯ અંતર્ગત ઈન્ડો-અમેરીકન જાતો/ હિરસુટમ બીટીનાં અખતરાઓ તેમજ બજેટ સદર-૧૨૦૦૯ અને બજેટ સદર-૫૦૦૯ અન્વયેનાં સ્ટેટ/ સ્ટેશન અખતરાઓની કામગીરી તથા આશાસ્પદ જાતોનું જીનીંગ કરાવી બીયારણ તૈયાર કરાવવાની કામગીરી</li> <li>• ખેડુતો માટે ઉપયોગી કપાસની નવી જાતો વિકસાવવાની કામગીરી</li> <li>• ખેડુતો માટે કપાસની જાતોની રીલીઝડ માટે પ્રપોઝલ બનાવવાની તથા બિયારણ જાળવણીની કામગીરી</li> <li>• મેગાસીડ પ્રોજેક્ટ હેઠળ ડાંગરનાં સીડ પ્રોડક્શન પ્લોટની કામગીરી</li> <li>• પ્રોજેની મેન્ટેનન્સ</li> <li>• હિરસુટમ કપાસનાં જર્મપ્લાઝમ ની જાળવણીની કામગીરી</li> <li>• ડીપ્લોમા વિદ્યાર્થીઓને ભણાવવાની કામગીરી</li> </ul>
૧૭	ડો. પી.આર. પરમાર મદદ. સંશો. વૈજ્ઞા. (માઈક્રો.બાયો.) બ.સ. ૧૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>• માઈક્રોબાયોલોજી વિભાગના અખતરાઓની કામગીરી</li> <li>• તાંત્રિક શાખાની કામગીરી તથા લાયબ્રેરીની કામગીરીમાં મદદ</li> <li>• મોનીટરીંગ ટીમ, મુલાકાતીઓ, તાલીમાર્થીઓની વ્યવસ્થાની કામગીરીમાં મદદ</li> <li>• આઈસીએઆર, ટીએસપી, એનએફએસએમ, સીસીઆઈ-સીઆઈસીઆર કોટન બીએમપી એક્ષટેન્શન પ્રોજેક્ટનાં માસીક, ત્રિમાસીક તથા અર્ધવાર્ષિક રીપોર્ટ કંપાઈલેશનની કામગીરી</li> <li>• સ્થાયી અને વિકાસ યોજનાના માસીક, ત્રિમાસીક, અર્ધવાર્ષિક, વાર્ષિક રીપોર્ટ કંપાઈલેશનની કામગીરી</li> <li>• બાયોટેક/ માઈક્રો બાયોલોજી લેબનાં કેમીકલ રજીસ્ટર જાળવણી</li> <li>• લેબોરેટરી માટેનાં ઉપયોગી રસાયણોની ખરીદી પ્રક્રિયામાં મદદ</li> <li>• કેન્દ્રની મુલાકાતે આવતા ખેડુતો, વિદ્યાર્થીઓ તથા વિસ્તરણ અધિકારીઓને માહિતી આપવાની કામગીરી</li> <li>• કેન્દ્ર ખાતે આવતાં સ્નાતક અને અનુસ્નાતક કક્ષાનાં વિદ્યાર્થીઓ માટે તાલીમનું આયોજન</li> <li>• કેન્દ્ર દ્વારા આયોજીત ટેકનીકલ મીટીંગની વ્યવસ્થા અને કાર્યક્રમ તૈયાર કરવાની કામગીરી</li> <li>• સંશોધન માટે જરૂરી બીજની વ્યવસ્થા, ચકાસણી માટેની જાતોની બીજોનું કોડીંગ તથા ડીકોડીંગની કામગીરી</li> <li>• ભલામણ થયેલ ટેકનોલોજીનાં ખેડુતોનાં ખેતર પર નિદર્શનપ્લોટની ગોઠવણી</li> <li>• ખેડુતોને ઉપયોગી માહિતી માટેનાં ઈ-વોઈસ મેસેજ માટે રેકોર્ડીંગની કામગીરી</li> <li>• પીજી વિદ્યાર્થીઓ તથા અન્યયુનિવર્સિટીના વિદ્યાર્થીઓને તાલીમ/ માર્ગદર્શનની કામગીરી</li> <li>• વિશ્વ કપાસ દિવસ, મહિલા ખેડુત દિન, વનમહોત્સવ જેવાં ઉત્સવોની ઉજવણીનું આયોજન</li> </ul>

			<ul style="list-style-type: none"> <li>● એનએચુ સ્પેક્ટ્રમ તથા યુનિવર્સિટી વેબસાઈટ પર માહિતી અદ્યતન કરવાની કામગીરી</li> </ul>
૧૮	જયોતિ એમ.વર્મા સ્ટેનો ગ્રેડ-૨ બ.સ.૧૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● કૃષિ વિજ્ઞાન કેન્દ્ર, નકૃયુ, સુરત ખાતે ફરજ બજાવે છે.</li> </ul>
૧૯	ડૉ. ડી.એચ.પટેલ સહ સંશો.વૈજ્ઞા. બ.સ.૧૨૦૧૪	નીલ	<ul style="list-style-type: none"> <li>● કોષ વિજ્ઞાન(કપાસ) વિભાગના વિભાગીય વડા તરીકેની કામગીરી</li> <li>● તાંત્રિક શાખાની વડા તરીકેની વધારાની કામગીરી</li> <li>● આંતર જાતીયસંકરણ દ્વારા કપાસની જાતો વિકસાવવાના અખતરાઓની કામગીરી</li> <li>● કપાસના પાકમાં નરવંધ્યત્વના અખતરાની કામગીરી</li> <li>● બીટી કપાસ સંશોધનની કામગીરી</li> <li>● એઆઈસીઆરપી ઓન કોટનનાં બીટી અખતરાઓની કામગીરી</li> <li>● પીજી વિદ્યાર્થીઓને માર્ગદર્શન તથા કમિટી મેમ્બર તરીકેની કામગીરી</li> <li>● એનએચુ આઈબીએસસીની મીટીંગ આયોજન અને રીપોર્ટમાં મેમ્બર સેક્રેટરીશ્રીને મદદ</li> <li>● ડીપ્લોમા વિદ્યાર્થીઓને ભણાવવાની કામગીરી</li> </ul>
૨૦	ડૉ. જી.આર.ભંડેરી મદદ. સંશો. વૈજ્ઞા. (કીટકશાસ્ત્ર) બ.સ. ૧૨૦૧૪	નીલ	<ul style="list-style-type: none"> <li>● પ્રોજેક્ટ (બ.સ.૧૨૦૧૪) તેમજ અધર એજન્સીને લગતાં અખતરાઓની તમામ પ્રકારની કામગીરી</li> <li>● યુનિટ ખાતે દરેક પાકોનાં કીટ નિયંત્રણ માટે માર્ગદર્શન તેમજ ભલામણો</li> <li>● એનએફએસએમ આઈઆરએમ એચડીપીએસ એફએલડી અંતર્ગત તાલુકાનાં ખેડુતોને માર્ગદર્શન, તાલીમ, કીટ વિતરણ અને રીપોર્ટની કામગીરી</li> <li>● સ્થાનિક ખરીદ સમિતીનાં સભ્યતરીકેની કામગીરી</li> <li>● કપાસ સંશોધન કેન્દ્ર ખાતે ઓફીસની ખરીદીની કામગીરી</li> </ul>
૨૧	ડૉ. રાજકુમાર બી.કે. મદદ. સંશો. વૈજ્ઞા. (બાયો-ટેક) બ.સ.૧૨૦૧૪	નીલ	<ul style="list-style-type: none"> <li>● બીટી કપાસ સંશોધનની કામગીરી</li> <li>● સાયટોલોજી વિભાગનાં અખતરાઓની કામગીરીમાં મદદ</li> <li>● કપાસના પાકમાં નરવંધ્યત્વના અખતરાની કામગીરીમાં મદદ</li> <li>● એઆઈસીઆરપી ઓન કોટનનાં બીટી અખતરાઓની કામગીરીમાં મદદ</li> <li>● આંતર જાતીય સંકરણ દ્વારા કપાસની જાતો વિકસાવવાના અખતરાઓની કામગીરીમાં મદદ</li> <li>● એગ્રેસ્કો બેઝીક સાયન્સનાં કન્વીનર તરીકેની કામગીરી</li> <li>● લેબોરેટરી માટેનાં ઉપયોગી રસાયણોની ખરીદી પ્રક્રિયાની કામગીરીમાં મદદ</li> <li>● કેન્દ્રની મુલાકાતે આવતા ખેડુતો, વિદ્યાર્થીઓ તથા વિસ્તરણ અધિકારીઓને માહિતી આપવાની કામગીરી</li> <li>● પીજી વિદ્યાર્થીઓને માર્ગદર્શન</li> </ul>
૨૨	ડૉ.એચ.ઈ.પાટીલ સંશોધન વૈજ્ઞાનિક બ.સ.૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● મુખ્ય જુવાર સંશોધન કેન્દ્ર, નકૃયુ, સુરત ખાતે ફરજ બજાવે છે.</li> </ul>

૨૩	ડો. પી.બી.સંદીપન મદદ. સંશો. વૈજ્ઞા. (પેથોલોજી) બ.સ. ૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● રોગશાસ્ત્ર અખતરાઓની કામગીરી અને રીપોર્ટીંગ</li> <li>● સંશોધન ફાર્મ ખાતે રોગ નિયંત્રણ અંગે માર્ગદર્શન અને સુપરવીઝન</li> <li>● દક્ષિણ ગુજરાતના દરેક જિલ્લાઓમાં કપાસના રોગનો સર્વે અને અઠવાડિક સલાહ / માર્ગદર્શન મોકલવાની કામગીરી</li> <li>● દક્ષિણ ગુજરાત જિલ્લાઓનાં કપાસનાં પાકમાં જીવાતોનો સર્વે અને અઠવાડિક સલાહકીય કામગીરીમાં મદદ</li> <li>● હવામાનનાં ડેટા કંપાઈલેશનની કામગીરી અને તેની ટેબરેખ</li> <li>● પીજી વિદ્યાર્થીઓને માર્ગદર્શનની કામગીરી</li> <li>● પાક યોજના, ટેકનીકલ પ્રોગ્રામ કંપાઈલેશનની કામગીરી</li> <li>● ફાર્મ ઉપર લેવામાં આવતાં તમામ પાકોમાં રોગ નિયંત્રણ અંગે મોનીટરીંગ અને દવાની ભલામણ</li> <li>● ફાર્મ મેનેજર તરીકેની કામગીરી</li> <li>● ફાર્મ ઉપર થતાં તમામ પાકોમાં નિંદામણ નિયંત્રણ માટે તેમજ પિયત માટે માર્ગદર્શન</li> <li>● ફાર્મ અને કેમ્પસ ડેવલપમેન્ટની કામગીરીમાં તેમજ ખરીદ કામગીરીમાં કપાસ સિવાયનાં અન્ય બીજ ઉત્પાદન પ્લોટોની ટેબરેખ તથા કાપણી અને બીજ ઉત્પાદન સુધીની કામગીરી</li> </ul>
૨૪	ડૉ. હિતેશ રામાણી મદદ. સંશો. વૈજ્ઞા. (બાયો.કેમ.) બ.સ. ૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● બાયોકેમેસ્ટ્રી, કેમેસ્ટ્રી અને ફીઝીયોલોજી વિભાગનાં એઆઈસીઆરપી અને વિભાગીય અખતરાઓની કામગીરી</li> <li>● કપાસ સંશોધન કેન્દ્રનાં કેન્દ્રીય સ્ટોર એસ-૨ના વહીવટની વધારાની જવાબદારી</li> <li>● સંશોધન કેન્દ્રનાં વિવિધ પ્લોટની જમીનનું પૃથ્થકરણની કામગીરી</li> <li>● પીજી વિદ્યાર્થીઓને માર્ગદર્શન</li> <li>● સંશોધન કેન્દ્ર ખાતે પીજી વિદ્યાર્થીઓ અને સંશોધન અખતરાઓનાં નમુનાઓનું પૃથ્થકરણની કામગીરી</li> <li>● બાયોકેમેસ્ટ્રી, બાયોકેમેસ્ટ્રી લેબનાં મેઈન્ટેનન્સ અને પૃથ્થકરણની કામગીરી</li> <li>● સ્થાનિક ખરીદ સમિતીનાં સભ્ય તરીકેની કામગીરી</li> <li>● કપાસ સંશોધન કેન્દ્ર ખાતે GeM ખરીદીની કામગીરી</li> <li>● ડીપ્લોમા અને સ્નાતક વિદ્યાર્થીઓને ભણાવવાની કામગીરી</li> </ul>
૨૫	ડૉ. આર.ડી.પટેલ મદદ. સંશો. વૈજ્ઞા. (કીટકશાસ્ત્ર) બ.સ. ૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● એઆઈસીઆરપી – એન્ટોમોલોજી પ્રોજેક્ટની કામગીરી તથા સ્ટેટ ટ્રાયલ પ્રોજેક્ટ/ અધર એજન્સીને લગતાં અખતરાઓની તમામ પ્રકારની કામગીરીમાં મદદ</li> <li>● વિભાગીય વડાશ્રીની સુચના મુજબ ફાર્મ ઉપર લેવામાં આવતાં તમામ પાકોમાં કિટ નિયંત્રણ અંગે મોનીટરીંગ અને દવાની ભલામણ</li> <li>● પોલીટેકનીક ઈન એગ્રીકલ્ચર, નક્યુ, વ્યારા ખાતે એન્ટોમોલોજી વિષયોની શૈક્ષણિક કામગીરી</li> <li>● દક્ષિણ ગુજરાત જિલ્લાઓનાં કપાસનાં પાકમાં જીવાતોનો સર્વે અને અઠવાડિક સલાહકીય કામગીરીમાં મદદ</li> <li>● ઝોનલ અને નેશનલ ટ્રાયલનાં અવલોકનો</li> <li>● એનએફએસએમ-આઈઆરએમના એફએલડી અંતર્ગત ડીસ્ટ્રીક્ટ કો-ઓર્ડિનેટર તરીકેની કામગીરી</li> <li>● પીજી વિદ્યાર્થીઓને માર્ગદર્શનની કામગીરી</li> </ul>

૨૬	ડો. કે.બી.સાંકટ મદદ. સંશો. વૈજ્ઞા. (એગ્રી.ઈકો) બ.સ.૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● એગ્રોનોમી વિભાગના અખતરાઓની કામગીરી</li> <li>● તાંત્રિક શાખાના ટેકનીકલ પત્ર વ્યવહાર અને વિવિધ રીપોર્ટ કંપાઈલેશન કામગીરી</li> <li>● પાક યોજના, ટેકનીકલ પ્રોગ્રામ અને પ્રવાસ ડાયરીની મંજૂરી પૂર્વે ચકાસણીની કામગીરી</li> <li>● કપાસનાં બ્રીડર સીડનું આયોજન અનેવહેંચણી</li> <li>● બ્રીડર ટેગની ફાળવણી અને રજીસ્ટરની જાળવણી</li> <li>● મોનીટરીંગ ટીમ, મુલાકાતીઓ, તાલીમાર્થીઓની વ્યવસ્થા</li> <li>● ટીવી ટોક, રેડીયો ટોક તથા વિવિધ કાર્યક્રમોમાં વ્યાખ્યાન</li> <li>● કેન્દ્રની મુલાકાતે આવતા ખેડુતો, વિદ્યાર્થીઓ તથા વિસ્તરણ અધિકારીઓને માહિતી આપવાની કામગીરી</li> <li>● કેન્દ્રખાતે આવતાં સ્નાતક અને અનુસ્નાતક કક્ષાનાં વિદ્યાર્થીઓ માટે તાલીમનું આયોજન</li> <li>● કેન્દ્ર દ્વારા આયોજીત ટેકનીકલ મીટીંગની વ્યવસ્થા અને કાર્યક્રમ તૈયાર કરવાની કામગીરી</li> <li>● સંશોધન માટે જરૂરી બીજની વ્યવસ્થા, ચકાસણી માટેની જાતોની બીજોનું કોડીંગ તથા ડીકોડીંગની કામગીરી</li> <li>● અધર એજન્સી પ્રોજેક્ટસની ગ્રાન્ટની ફાળવણી</li> <li>● ભલામણ થયેલ ટેકનોલોજીનાં ખેડુતોનાં ખેતર પર નિદર્શન પ્લોટની ગોઠવણી</li> <li>● કૃષિમેળો, ખેડુત દિન, ખેડુત શિબિર, ખેડુત સેમીનાર વિગેરેમાં ખેડુતોને માર્ગદર્શન આપવાની કામગીરી</li> <li>● વિશ્વ કપાસ દિવસ, મહિલા ખેડુત દિન, વનમહોત્સવ જેવાં ઉત્સવોની ઉજવણીનું આયોજન</li> <li>● યુનિવર્સિટી વેબસાઈટ પર માહિતી અદ્યતન કરવાની કામગીરી</li> <li>● કપાસ કેન્દ્રની જમીન તેમજ લેબર કોર્ટ, માલ-મિલકતને લગતાં પ્રશ્નો અને પત્ર વ્યવહારની કામગીરી</li> </ul>
૨૭	શ્રી વી.કે.વેકરીયા મદદ. સંશો. વૈજ્ઞા. (બાયો-કેમ) બ.સ. ૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● બાયોકેમેસ્ટ્રી, કેમેસ્ટ્રી અને ફીઝીયોલોજી વિભાગનાં વડા તરીકેની કામગીરી તથા અખતરાઓની કામગીરી</li> <li>● સંશોધન કેન્દ્રનાં વિવિધ પ્લોટની જમીનનું પૃથ્થકરણની કામગીરી</li> <li>● જીટીસી બિલ્ડીંગ અને ફાર્મનાં સીસીટીવી મોનીટરીંગ અને મેઈન્ટેનન્સ</li> <li>● PM GATI SHAKTI GUJARATમાં કામગીરી</li> <li>● ફાર્મ ડેવલપમેન્ટની કામગીરીમાં મદદ</li> <li>● ગેસ્ટ હાઉસને લગતી કામગીરી</li> <li>● ખરીદ કમિટીનાં મેમ્બર તરીકેની કામગીરી</li> <li>● સિક્યુરીટી સર્વિસીસનાં કન્સાઈની તરીકેની કામગીરી</li> <li>● યુનિવર્સિટીની વિવિધ કોલેજો ખાતે બાયોકેમેસ્ટ્રી વિષયની શૈક્ષણિક કામગીરી</li> </ul>
૨૮	શ્રી કે.કે.લાડ ખેતીવાડી નિરીક્ષક બ.સ.૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● સેન્ટ્રલ સ્ટોર વિભાગએસ-૨ની તમામ કામગીરી, એસ-૨ તથા ફાર્મ વિભાગનાં તમામ ડેડસ્ટોકની જાળવણી</li> <li>● બિયારણ વેચાણ વ્યવસ્થાપનની કામગીરી</li> </ul>

			<ul style="list-style-type: none"> <li>● તમામ વિભાગનાં ડેડસ્ટોક સાધનો હરાજીથી નિકાલથી વ્યવસ્થાની કામગીરી</li> <li>● લાઈટબીલ રજીસ્ટર નિભાવવાની કામગીરી</li> <li>● ફાર્મ વિભાગનાં તમામ ખનીજ તેલને લગતાં રજીસ્ટરો નિભાવવાની કામગીરી</li> <li>● સીક્યુરીટી ફાઈલની કામગીરી</li> <li>● પાવર પ્લાન્ટ રજીસ્ટર લગતી કામગીરી</li> </ul>
૨૯	શ્રી આર. બી. ટર્નર ખેતી નિરીક્ષક બ.સ.૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● અત્રેના કેન્દ્રનીએસ-૧ વિભાગની તમામ કામગીરી</li> <li>● એગ્રોનોમી વિભાગનાં રાજ્ય કક્ષાનાં અખતરાની કામગીરીમાં મદદ</li> <li>● કચેરી ફાર્મનાં તમામ વાહનોનાં વીમા અને આરટીઓની કામગીરી</li> <li>● દેશી વિભાગનાં ડેડસ્ટોકને લગતી કામગીરી</li> <li>● દેશી તથા સંકર કપાસ વિભાગનાં અખતરાઓની પાક યોજના તેમજ સોઈંગ લીસ્ટ બનાવવું.</li> <li>● દરેક અખતરાઓમાં સમયાનુસાર ખેતીકાર્યોની કામગીરી</li> <li>● દેશી વિભાગનાં લેબર મસ્ટરની કામગીરી</li> <li>● અખતરાના રેકર્ડ નિભાવવાની કામગીરી</li> <li>● મજુરોનું સુપરવીઝનની કામગીરી</li> <li>● એગ્રસ્કો-એઆઈસીસીઆઈપી રીપોર્ટની કામગીરીમાં મદદ</li> </ul>
૩૦	શ્રી ભાવેશ એચ. ગજેરા ખેતી નિરીક્ષક બ.સ.૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● સાયટોલોજી વિભાગનાં ડેડસ્ટોકને લગતી કામગીરી</li> <li>● સાયટોલોજી વિભાગનાં મજુરોનાં મસ્ટરની કામગીરી તથા મજુરોનું સુપરવીઝનની કામગીરી</li> <li>● સાયટોલોજીવિભાગનાં પેડીગ્રી રજીસ્ટરની જાળવણી</li> <li>● દરેક અખતરાઓમાં સમયાનુસાર ખેતી કાર્યોની કામગીરી</li> </ul>
૩૧	શ્રી ડી. કે. છોડવડિયા ખેતી મદદનીશ બ.સ.૨૦૦૯	નીલ	<ul style="list-style-type: none"> <li>● બીજ ઉત્પાદનને લગતી ક્ષેત્રીય તમામ કામગીરી તેમજ તેને લગતી ફાઈલો નિભાવવી</li> <li>● બીજ ઉત્પાદનને લગતા તમામ રજીસ્ટરો નિભાવવા</li> <li>● ઝાડ રજીસ્ટર, મંજુરી રજીસ્ટર</li> <li>● ફાર્મ વિભાગનાં રોજમેળ, ખાતાવહી, ઉત્પાદન રજીસ્ટરની નિભાવણી</li> <li>● સોઈંગ લીસ્ટ અને પાક યોજના તૈયાર કરવી</li> <li>● હિસ્ટ્રી સીટને લગતી કામગીરી</li> <li>● ટ્રેક્ટરો અને વાહનોની રીપેરીંગની ફાળવણી અનેટેખરેખ</li> <li>● બળદ અનેતેનો ચારો તેમજ ખાણદાણની નિભાવણીની કામગીરી</li> <li>● ફાર્મ વિભાગનાં તમામ વ્યવહારોની કામગીરી</li> </ul>

(૩) દેખરેખ અને જવાબદારીના માધ્યમ સહિત નિર્ણય લેવાની પ્રક્રિયામાં અનુસરવાની કાર્યરીતિ;

યુનિટ ખાતે ફરજ બજાવતા અધિકારીઓ તથા કર્મચારીઓની તમામ સંશોધનને લગતી કામગીરી તેમજ વહીવટી તથા હિસાબીકામગીરી સંશોધન વૈજ્ઞાનિકશ્રી(કપાસ)ના માર્ગદર્શન હેઠળ કરવામાં આવે છે. ઉપરાંત ગુજરાત રાજ્યમાં કપાસ સંશોધનની તમામ કામગીરી તેમજ આ બાબતની રાષ્ટ્રીય કક્ષાની કામગીરીની જવાબદારી સંશોધન વૈજ્ઞાનિક(કપાસ)ની છે.

(૪) પોતાના કાર્યો બજાવવા માટે પોતે નક્કી કરેલા ધોરણ;

યુનિવર્સિટી નિયમો મુજબ સંશોધનને લગતી સઘળી કામગીરી તથા વહીવટી કર્મચારીઓ દ્વારા કચેરીને લગતી તમામ પ્રકારની વહીવટી તથા હિસાબી કામગીરી યુનિવર્સિટીના નીતિ-નિયમો મુજબ કરવામાં આવે છે. આ ઉપરાંત વૈજ્ઞાનિકો દ્વારા અનુસ્નાતક વિદ્યાર્થીઓને માર્ગદર્શન અને શિક્ષણ આપવાની કામગીરી કરવામાં આવે છે તેમજ સરકારશ્રીના ઠરાવો મુજબ કામગીરી કરવામાં આવે છે.

(પ)	પોતાના કાર્યો બજાવવા માટે પોતાની પાસેના અથવા પોતાના નિયંત્રણ હેઠળના અથવા પોતાના કર્મચારીઓ દ્વારા ઉપયોગમાં લેવાતા નિયમો, વિનિયમો, સૂચનાઓ, નિયમસંગ્રહો અને રેકર્ડ		
	કૃષિ યુનિવર્સિટીની સ્ટેચ્યુટરી જોગવાઈઓ મુજબ નિયમો, વિનિયમો અને સૂચનાઓને અનુસરવામાં આવે છે તેમજ માન. રાજ્ય સરકારશ્રીના કૃષિ અને સહકાર વિભાગના આદેશો અનુસાર કામગીરી કરવામાં આવે છે તથા હિસાબી કામગીરીનું લોકલ ફંડ ઓડીટરશ્રી દ્વારા ઓડીટ કરાવવામાં આવે છે તેમજ અત્રેની એકમ દ્વારા જરૂરી રજીસ્ટરો નિભાવવામાં આવે છે જેવા કે, ડેડસ્ટોક, સ્ટોર રોજમેન્ટ, ચીજવસ્તુ વપરાશ, મંજૂરી, લેબરશીટ, હાજરીપત્રક, રીપેરીંગ, સાધનોની લોગબુક, વાહનની લોગબુક અને હીસ્ટ્રીસીટ, નમૂના રજીસ્ટર, પરચૂરણ રજા, ટપાલ આવક જાવક તથા હિસાબી રજીસ્ટરો જેવા કે કેસબુક, રસીદ બુક, માસિક ખર્ચ પત્રક રજીસ્ટર વિગેરે રેકર્ડની નિભાવણી કરવામાં આવે છે.		
(ફ)	પોતાની પાસે અથવા પોતાના નિયંત્રણ હેઠળ હોય તેવા દસ્તાવેજોના વર્ગોનું પત્રક;		
	અ. નં.	અધિકારી/કર્મચારીનું નામ	નિયંત્રણ હેઠળના દફતરની વિગત
	૧	ડો. એમ.સી.પટેલ સંશોધન વૈજ્ઞાનિક (કપાસ) બ.સ.૫૦૦૯	<ul style="list-style-type: none"> <li>અઠવા ફાર્મની અસ્કયામતોની માલીકીની ફાઈલ</li> <li>જમીન સંપાદન અને મહેસુલી દફતરની ફાઈલ</li> <li>અનુસ્નાતકવિદ્યાર્થીની પત્રવ્યવહાર ફાઈલ</li> <li>કપાસ સંશોધન કેન્દ્રોના ખાનગી પત્રવ્યવહારની ફાઈલ</li> <li>અધિકારીશ્રી/કર્મચારીશ્રીઓનું આકસ્મિક/ મરજીયાત રજા મંજૂરીનું રજીસ્ટર</li> <li>ન.કૃ.યુ.ની આઈબીએસસીની કાર્યવાહીની ફાઈલ</li> </ul>
	૨	ડો. જી.ઓ.ફલ્હુ સહ સંશો. વૈજ્ઞા. (પાક સંવર્ધન) બ.સ. ૫૦૦૯	<ul style="list-style-type: none"> <li>હાઈબ્રીડ વિભાગના તથા દેશી કપાસ વિભાગના ટેકનીકલ પ્રોગ્રામ અખતરા ફાઈલ, અખતરા વાવણી રજીસ્ટર, પાક યોજના રજીસ્ટર</li> <li>કંપની પ્રોજેક્ટ અવલોકન નોંધણી ફાઈલ</li> <li>અખતરા અહેવાલ (વાર્ષિક, ત્રિમાસિક, માસિક) ફાઈલ</li> <li>સંકર જાતોના નર અને માદાના બિયારણોનું દફતર, પ્રોજેનીંગ મેન્ટેનન્સ રજીસ્ટર, પેડીગ્રી રજીસ્ટર અને જંગલી કપાસની જાતોના નર્સરીનું રજીસ્ટર</li> <li>તાંત્રિક શાખા સાથે ટેકનીકલ અને જનરલ પત્રવ્યવહાર ફાઈલ</li> <li>બિયારણ પ્લોટ રોગીંગ રજીસ્ટર</li> <li>સંકર વિભાગ સંશોધન લેખો અને ભલામણોની ફાઈલ</li> <li>કપાસ મ્યુઝીયમ મુલાકાત રજીસ્ટર તથા તેને લગતા પત્ર વ્યવહાર ફાઈલ</li> <li>પી.જી.વિદ્યાર્થીને માર્ગદર્શનની ફાઈલ</li> </ul>
	૩	નીકીતા એસ. ડાભી ખેતી મદદનીશ બ.સ.૫૦૦૯	<ul style="list-style-type: none"> <li>ડેડસ્ટોક રજીસ્ટર, ફાસ્ટટેગ રજીસ્ટર, વિભાગનું ઈનવર્ડ-આઉટવર્ડ રજીસ્ટર, તાંત્રિક શાખા મંજૂરી રજીસ્ટર, રીપેરીંગ રજીસ્ટર</li> <li>યુનિ. વાહન બોલેરો જીપ, સ્કોર્પીયો ગાડીની લોગબુક</li> <li>રેકર્ડ રજીસ્ટર</li> <li>માનનીય મહાનુભાવોની મુલાકાતી રજીસ્ટર</li> <li>એગ્રોનોમી વિભાગની પાક યોજના વાવણી પત્રક</li> <li>અખતરાના અવલોકનોની ફાઈલ, એનાલીસીસની ફાઈલ</li> <li>એગ્રોનોમી વિભાગના મંજૂરી રજીસ્ટર, ઉત્પાદન રજીસ્ટર, સ્ટોરમાંગણી પત્રક, મજૂરોનું હાજરી પત્રક, લેબર શીટ, ડેડસ્ટોક રજીસ્ટર તથા રીપેરીંગ ભંગાર રજીસ્ટર</li> </ul>
	૪	ભાવના જે.મેવાડા ખેતી મદદનીશ બ.સ.૫૦૦૯	<ul style="list-style-type: none"> <li>કેમેસ્ટ્રી/ ફીઝીયોલોજી વિભાગના મંજૂરી રજીસ્ટર, ઉત્પાદન રજીસ્ટર, સ્ટોર માંગણી પત્રક, મજૂરોનું હાજરી પત્રક, લેબર શીટ, ખાતાવહી, ડેડસ્ટોક રજીસ્ટર તથા રીપેરીંગ ભંગાર રજીસ્ટર</li> <li>ઈન્ડો-અમેરીકન વિભાગના મંજૂરી રજીસ્ટર, ઉત્પાદન રજીસ્ટર, સ્ટોર માંગણી પત્રક, ડેડસ્ટોક રજીસ્ટર, પીકીંગ રજીસ્ટર તથા રીપેરીંગ ભંગાર રજીસ્ટર</li> </ul>

		<ul style="list-style-type: none"> <li>● ઈન્ડો-અમેરીકન વિભાગનાં મજૂરોનું હાજરી પત્રક</li> <li>● લેબર શીટ</li> </ul>
૫	દિપાલી એમ.બડવા ખેતી મદદનીશ બ.સ.૫૦૦૯	<ul style="list-style-type: none"> <li>● સંકર કપાસ વિભાગનાં મજૂરોનું હાજરી પત્રક</li> <li>● મંજૂરી રજીસ્ટર, ઉત્પાદન રજીસ્ટર, સ્ટોર માંગણી પત્રક, લેબર શીટ, રોજમેળ, ખાતાવહી, ઉત્પાદન રજીસ્ટર, ડેડસ્ટોક રજીસ્ટર તથા રીપેરીંગ ભંગાર રજીસ્ટર</li> </ul>
૬	જીજ્ઞાશા એસ.ગોહિલ ખેતી મદદનીશ બ.સ.૫૦૦૯	<ul style="list-style-type: none"> <li>● એન્ટોમોલોજી વિભાગનાં મજૂરોનું હાજરી પત્રક</li> <li>● લેબર શીટ, રીપેરીંગ રજીસ્ટર તથા ભંગાર રજીસ્ટર</li> <li>● રોજમેળ, ખાતાવહી ઉત્પાદન રજીસ્ટર, ચીજવસ્તુ રજીસ્ટર</li> <li>● કીટકશાસ્ત્ર/ રોગશાસ્ત્ર વિભાગનું મંજૂરી રજીસ્ટર</li> <li>● વિભાગનું આઉટવર્ડ ઈનવર્ડ રજીસ્ટર</li> <li>● કીટકશાસ્ત્ર/ રોગશાસ્ત્ર વિભાગનું ડેડસ્ટોક રજીસ્ટર</li> <li>● કીટકશાસ્ત્ર/ રોગશાસ્ત્ર વિભાગના મંજૂરી રજીસ્ટર, ઉત્પાદન રજીસ્ટર, સ્ટોર માંગણી પત્રક, ડેડસ્ટોક રજીસ્ટર તથા રીપેરીંગ ભંગાર રજીસ્ટર</li> </ul>
૭	જીજ્ઞેશ કે.ભરડા ખેતી મદદનીશ બ.સ.૫૦૦૯	<ul style="list-style-type: none"> <li>● મકાન રજીસ્ટર</li> <li>● ક્વાટર્સ/ ગેસ્ટહાઉસ અંગેની રજીસ્ટરો તથા તેને લગતી ફાઈલો</li> <li>● ફાર્મ વિભાગનાં મજૂરોનું હાજરી પત્રક, લેબર શીટ</li> <li>● ઓબઝર્વેટરી અંગેની ફાઈલો, ફાર્મ ડેડસ્ટોક રજીસ્ટર</li> </ul>
૮	શ્રી એસ. બી. ચૌધરી સીનીયર ક્લાર્ક બ.સ. ૫૦૦૯	<ul style="list-style-type: none"> <li>● અસ્પી શકીલમ બાયોટેકનોલોજી ઈન્સ્ટીટ્યુટ, નક્યુ, સુરત ખાતે ફરજ બજાવે છે.</li> </ul>
૯	શ્રીમતી જે.એચ.પટેલ સીનીયર ક્લાર્ક બ.સ.૫૦૦૯	<ul style="list-style-type: none"> <li>● મુખ્ય કપાસ સંશોધન કેન્દ્ર ખાતે ફરજ બજાવતા તમામ અધિકારી/ કર્મચારીની સેવાપોથી, પર્સનલ ફાઈલો તથા તેને લગતી ફાઈલો</li> <li>● ખાનગી અહેવાલની ફાઈલો તથા તેને લગતા રજીસ્ટર</li> <li>● ઓડિટને લગતી ફાઈલો તથા તેને લગતા રજીસ્ટર</li> <li>● RA/SRF/JRF ના ઈન્ટરવ્યુ અંગેની ફાઈલ</li> <li>● ક્વાટર્સ ફાળવણી અંગેની ફાઈલો/રજીસ્ટર</li> <li>● અત્રેની કચેરીના તમામ અધિકારીઓ/ કર્મચારીઓની રજા અંગેની ફાઈલો તથા રજીસ્ટરો, પરિપત્રો/ ઠરાવની ફાઈલો</li> <li>● ચૂંટણી અધિકારી/રોજગાર વિનિમય તથા ઉપલી કચેરીથી માંગવામાં આવેલ વહીવટી માહિતીને લગતી ફાઈલો, લાઈટબીલ રજીસ્ટર</li> <li>● બજેટને લગતી ફાઈલો/ એ.યુ.સી./ અંદાજીત બજેટો/ત્રિમાસિક ચાર્જ પત્રકોની ફાઈલો</li> <li>● સ્ટેશનરી રજીસ્ટર</li> </ul>
૧૦	કુ.હિરલ ટાંક જી.ક્લાર્ક બ.સ.૫૦૦૯	<ul style="list-style-type: none"> <li>● પગારબીલ અને તેને લગતા રજીસ્ટરો તથા ફાઈલો</li> <li>● અત્રેના કેન્દ્રમાં ફરજ બજાવતા તમામ અધિકારી/કર્મચારીની પી.એફ. તથા એન.પી.એસ. પાસબુક</li> <li>● ઈનવર્ડ, આઉટવર્ડ રજીસ્ટર, ટપાલ ટીકીટ રજીસ્ટર</li> </ul>
૧૧	શ્રી મિતુલ પી. અવૈયા જી.ક્લાર્ક બ.સ.૫૦૦૯	<ul style="list-style-type: none"> <li>● ગ્રાન્ટ રજીસ્ટર, બીલ રજીસ્ટર, કન્ટ્રીજન્સી ખર્ચ વર્ગીકરણ રજીસ્ટર, વેરા બીલ રજીસ્ટર</li> <li>● કેશબુક, આવક રજીસ્ટર, POS મશીન અને રજીસ્ટર, જીએસટી – ટીડીએસને લગતી ફાઈલો</li> <li>● હિસાબી શાખાના ડેડસ્ટોક</li> </ul>

૧૨	શ્રી બી.બી.ચૌધરી પટાવાળા, બ.સ.૫૦૦૯	• નીલ
૧૩	શ્રી પી.જી.સોનેરી લેબ બોય, બ.સ.૫૦૦૯	
૧૪	ડૉ. એચ.આર.દેસાઈ સહ સંશોધન વૈજ્ઞાનિક (ક્રિટિકશાસ્ત્ર) બ.સ.૧૨૦૦૯	<ul style="list-style-type: none"> <li>• ક્રિટિકશાસ્ત્ર વિભાગના ટેકનીકલ પત્રવ્યવહાર ફાઈલ</li> <li>• ક્રિટિકશાસ્ત્ર વિભાગ સંશોધન લેખો અને ભલામણોની ફાઈલ</li> <li>• પ્રિન્સીપાલ ઈન્વેસ્ટીગેટીંગ તરીકેનાં અધર એજન્સી પ્રોજેક્ટોની ફાઈલ</li> <li>• અનુસ્નાતક વિદ્યાર્થીની પત્રવ્યવહાર ફાઈલ</li> </ul>
૧૫	ડૉ. એમ.એમ.પટેલ સહ સંશો. વૈજ્ઞા. (એગ્રોનોમી) બ.સ.૧૨૦૦૯	<ul style="list-style-type: none"> <li>• એગ્રોનોમી વિભાગના પત્રવ્યવહાર ફાઈલ</li> <li>• એગ્રોનોમી વિભાગ સંશોધન લેખો અને ભલામણોની ફાઈલ</li> <li>• ફાર્મના તમામ પ્લોટોના પુથ્થકરણની ફાઈલ</li> <li>• ફાર્મના તમામ પ્લોટોમાં પાક આયોજનની વર્ષવાર ફાઈલ</li> <li>• ઉપાડ અને ચુકવણાં અધિકારીનાં અગત્યનાં પત્ર વ્યવહારોની ફાઈલ</li> </ul>
૧૬	શ્રી ડી.એમ.પટેલ મદદ. સંશો. વૈજ્ઞા. (બ્રીડીંગ) બ.સ. ૧૨૦૦૯	<ul style="list-style-type: none"> <li>• ઈન્ડો-અમેરીકન વિભાગના ટેકનીકલ પ્રોગ્રામ અખતરા ફાઈલ, અખતરા વાવણી રજીસ્ટર, પાક યોજના, પાક ઉત્પાદન, પેડીગ્રી રજીસ્ટર, પીકીંગ/ જીનીંગ/અવલોકન રજીસ્ટર</li> <li>• એગ્રેસ્કો/ એઆઈસીસીઆઈપી/ રીલીઝડ પ્રપોઝલ ફાઈલ</li> <li>• અખતરા અહેવાલ (વાર્ષિક, ત્રિમાસિક, માસિક) ફાઈલ</li> <li>• ઈન્ડો-અમેરીકન જાતોના બિયારણોનું દફતર, પ્રોજેની મેન્ટેનન્સ રજીસ્ટર, પેડીગ્રી રજીસ્ટર</li> <li>• તાંત્રિક શાખા સાથે ટેકનીકલ અને જનરલ પત્રવ્યવહાર ફાઈલ</li> </ul>
૧૭	ડૉ. પી.આર.પરમાર મદદ. સંશો. વૈજ્ઞા. (માઈક્રો.બાયો.) બ.સ.૧૨૦૦૯	<ul style="list-style-type: none"> <li>• એનએફએસએમ અને એફએલડી અખતરાઓનો અહેવાલ ફાઈલ</li> <li>• ભારત સરકાર, રાજ્ય સરકાર કૃષિ યુનિવર્સિટીઓ સાથેનાં પત્રવ્યવહારની ફાઈલ</li> <li>• RAWE તથા BRS વિદ્યાર્થીઓની તાલીમ માટેની ફાઈલ, આત્મા ટ્રેનીંગની ફાઈલ</li> <li>• ડેઝરટેશન માટે આવતાં વિદ્યાર્થીઓના કરારની ફાઈલ</li> <li>• લેબોરેટરી માટે ઉપયોગી રસાયણો તથા આલ્કોહોલનાં રજીસ્ટર</li> <li>• માઈક્રોબાયોલોજી વિભાગ સંશોધન લેખો અને ભલામણોની ફાઈલ</li> </ul>
૧૮	જયોતિ એમ.વર્મા સ્ટેનો ગ્રેડ-II બ.સ.૧૨૦૦૯	• કૃષિ વિજ્ઞાન કેન્દ્ર, નક્યુ, સુરત ખાતે ફરજ બજાવે છે.
૧૯	ડૉ. ડી. એચ. પટેલ સહ સંશોધન વૈજ્ઞાનિક બ.સ.૧૨૦૧૪	<ul style="list-style-type: none"> <li>• સાયટોલોજી વિભાગના પત્ર વ્યવહારની ફાઈલ</li> <li>• અત્રેના કેન્દ્રના તમામ ટેકનીકલ અને જનરલ પત્ર વ્યવહાર ફાઈલ કંપની પ્રોજેક્ટ ફાઈલ, બીટી કન્વર્ઝન પ્રોગ્રામ ફાઈલ</li> <li>• પ્રોજેની મેન્ટેનન્સ રજીસ્ટર, પેડીગ્રી રજીસ્ટર</li> <li>• બીટી કપાસ સંશોધનના કરારની ફાઈલ</li> <li>• સાયટોલોજી વિભાગ સંશોધન લેખો અને ભલામણોની ફાઈલ</li> <li>• તમામ યોજનાઓના બજેટની પત્ર વ્યવહાર / ફાળવણીની ફાઈલ</li> </ul>
૨૦	ડૉ. જી.આર.ભંડેરી મદદ. સંશો. વૈજ્ઞા. (ક્રિટિકશાસ્ત્ર)	<ul style="list-style-type: none"> <li>• અખતરા અહેવાલ (વાર્ષિક, ત્રિમાસિક, માસિક) ફાઈલ</li> <li>• અખતરા વાવણી રજીસ્ટર, પાક યોજના રજીસ્ટર</li> <li>• પ્રોજેક્ટ પ્રપોઝલ ફાઈલ</li> </ul>

	બ.સ.૧૨૦૧૪	<ul style="list-style-type: none"> <li>● ખેડૂત માર્ગદર્શન ફાઈલ</li> </ul>
૨૧	ડો. રાજકુમાર બી.કે. મદદ. સંશો. વૈજ્ઞા. (બાયો-ટેક) બ.સ.૧૨૦૧૪	<ul style="list-style-type: none"> <li>● બાયો. ટેક લેબ. ઈન્સ્ટ્રુમેન્ટ ખરીદી અને જાળવણીની ફાઈલ તથા રજીસ્ટર</li> <li>● બાયોટેકનોલોજી લેબનાં કેમીકલ્સ અને ગ્લાસવેરની ફાઈલ</li> <li>● ઈથેનોલ વપરાશ રજીસ્ટર</li> <li>● બાયો. ટેક. વિદ્યાર્થીને તાલીમ અને ડેઝરટેશન ફાઈલ</li> <li>● બાયો. ટેક. વિભાગ સંશોધન લેખો અને ભલામણોની ફાઈલ</li> </ul>
૨૨	ડૉ. એચ.ઈ. પાટીલ સંશોધન વૈજ્ઞાનિક બ.સ.૨૦૦૯	<ul style="list-style-type: none"> <li>● મુખ્ય જુવાર સંશોધન કેન્દ્ર, નક્યુ, સુરત ખાતે ફરજ બજાવે છે.</li> </ul>
૨૩	ડો. પી.બી.સાંદીપન મદદ. સંશો. વૈજ્ઞા. (પેથોલોજી) બ.સ. ૨૦૦૯	<ul style="list-style-type: none"> <li>● રોગશાસ્ત્ર વિભાગના ટેકનીકલ પ્રોગ્રામ અખતરા ફાઈલ, અખતરા વાવણી રજીસ્ટર, પાક યોજના રજીસ્ટર</li> <li>● તાંત્રિક શાખા સાથે ટેકનીકલ અને જનરલ પત્રવ્યવહાર ફાઈલ</li> <li>● પેથોલોજી વિભાગના સંશોધન લેખો અને ભલામણોની ફાઈલ</li> <li>● રાવે/ પી.જી.વિદ્યાર્થી માગદર્શન ફાઈલ</li> <li>● પ્લોટ ફાળવણી ફાઈલ</li> <li>● બીજ ઉત્પાદન ફાળવણી રજીસ્ટર (ફાઉન્ડેશન અને સટી ફાઈલ)</li> <li>● ફાર્મ ઈમ્પ્લીમેન્ટ્સ ફાઈલ, ફાર્મ પિયતની ફાઈલ</li> <li>● ફાર્મ લાઈટબીલની ફાઈલ</li> <li>● ફાર્મ મજુરની મંજુરીની ફાઈલ</li> <li>● ફાર્મ વાહનોનાં ઈન્સ્યુરન્સની ફાઈલ</li> <li>● ફાર્મ ડેડસ્ટોકની ફાઈલ</li> <li>● ડીઝલ રજીસ્ટર</li> </ul>
૨૪	ડો. હિતેશ રામાણી મદદ. સંશો. વૈજ્ઞા. (બાયોકેમ) બ.સ.૨૦૦૯	<ul style="list-style-type: none"> <li>● બાયો.કેમેસ્ટ્રી/ફીઝીયોલોજી વિભાગના ટેકનીકલ પ્રોગ્રામ અખતરા ફાઈલ</li> <li>● નમુના પૃથ્થકરણ ફાઈલ</li> <li>● અખતરા અહેવાલ (વાર્ષિક, ત્રિમાસિક, માસિક) ફાઈલ</li> <li>● કેમેસ્ટ્રી વિભાગનાં અખતરાના પૃથ્થકરણને લગતી ફાઈલ</li> </ul>
૨૫	ડો. આર.ડી.પટેલ મદદ. સંશો. વૈજ્ઞા. (કીટકશાસ્ત્ર) બ.સ.૨૦૦૯	<ul style="list-style-type: none"> <li>● કીટકશાસ્ત્ર વિભાગના ટેકનીકલ પ્રોગ્રામ અને અખતરા ફાઈલ</li> <li>● કંપની પ્રોજેક્ટ ફાઈલ</li> <li>● તાંત્રિકશાખા સાથે ટેકનીકલ અને જનરલ પત્રવ્યવહાર ફાઈલ</li> <li>● અખતરા અહેવાલ (વાર્ષિક, ત્રિમાસિક, માસિક) ફાઈલ</li> <li>● રાવે/ પી.જી. વિદ્યાર્થી માગદર્શન ફાઈલ</li> </ul>
૨૬	ડો. કે.બી.સાંકટ મદદ. સંશો. વૈજ્ઞા. (એગ્રોનોમી) બ.સ. ૨૦૦૯	<ul style="list-style-type: none"> <li>● તમામ મીટીંગની પ્રોસીડીંગ ફાઈલો</li> <li>● ભારત સરકાર, રાજ્ય સરકાર, ખેતીવાડી ખાતુ, કૃષિ યુનિવર્સિટીઓ સાથેના પત્રવ્યવહારની ફાઈલો</li> <li>● પ્રવાસ ડાયરીની ફાઈલો</li> <li>● કંપની પ્રોજેક્ટ ફાઈલ, પ્રોજેક્ટ પ્રપોઝલ ફાઈલો</li> <li>● ફંટ લાઈન ડેમોન્સ્ટ્રેશન અંગેની ફાઈલ</li> <li>● અત્રેના કેન્દ્રની તમામ ભલામણો અને પ્રકાશનોની ફાઈલો</li> <li>● બીજને લગતા પત્રવ્યવહારની ફાઈલો તથા રજીસ્ટર</li> <li>● બ્રીડર સીડ ટેગ અંગેના રજીસ્ટરો અને ફાઈલ</li> <li>● સીડ ડીપોઝીટ અંગેના રજીસ્ટરો અને ફાઈલ</li> </ul>

		<ul style="list-style-type: none"> <li>• બ્રીડર સીડ ડીસ્ટ્રીબ્યુશનની ફાઈલ</li> <li>• જમીન રેકર્ડ ફાઈલ</li> </ul>
૨૭	શ્રી વી.કે.વેકરીયા મદદ. સંશો. વૈજ્ઞા. બ.સ. ૨૦૦૯	<ul style="list-style-type: none"> <li>• બાયોકેમેસ્ટ્રી, કેમેસ્ટ્રી અને ફીઝીયોલોજી વિભાગનાં વિવિધ ફાઈલો તથા રજીસ્ટર નિયંત્રણ</li> <li>• કેમેસ્ટ્રી વિભાગનાં અખતરાના સંશોધન, લેખો અને ભલામણને લગતી ફાઈલ</li> </ul>
૨૮	શ્રી કે.કે.લાડ ખેતી નિરીક્ષક બ.સ. ૨૦૦૯	<ul style="list-style-type: none"> <li>• સેન્ટર સ્ટોર વિભાગનાં સ્ટોર રોજમેળ, સ્ટોર ખાતાવહી અને ચીજવસ્તુ વપરાશ રજીસ્ટર અને ડેડસ્ટોક રજીસ્ટર</li> <li>• ફાર્મ વિભાગનાં ડેડસ્ટોક રજીસ્ટરો તથા એસ-૨નાં ડેડસ્ટોક રજીસ્ટર અને મંજૂરી રજીસ્ટર</li> <li>• બિયારણ વેચાણ મંજૂરીને લગતી ફાઈલ</li> <li>• સ્ટોર બિયારણ વેચાણ લાયસન્સ ફાઈલ</li> <li>• લાઈટબીલ રજીસ્ટર તથા ફાઈલ</li> <li>• ફાર્મ સીક્યુરીટી ફાઈલ</li> <li>• ટ્રેકટરોનાં ખનીજ તેલ અંગેનાં રજીસ્ટર</li> </ul>
૨૯	શ્રી આર. બી. ટર્નર ખેતી નિરીક્ષક બ.સ. ૨૦૦૯	<ul style="list-style-type: none"> <li>• ખરીદીને લગતી તમામ પ્રકારની ફાઈલો તથા જનરલ ખરીદીનું મંજૂરી રજીસ્ટર</li> <li>• કચેરીનાં ફાર્મનાં વાહનોની આરસી બુક</li> <li>• વીમાને લગતા પત્રોની ફાઈલ</li> <li>• દેશી વિભાગના મંજૂરી રજીસ્ટર, ઉત્પાદન રજીસ્ટર, સ્ટોર માંગણી પત્રક, ડેડસ્ટોક રજીસ્ટર</li> <li>• દેશી વિભાગનાં મજૂરોનું હાજરી પત્રક</li> <li>• લેબર શીટ</li> </ul>
૩૦	શ્રી ભાવેશ એચ. ગજેરા ખેતી નિરીક્ષક બ.સ. ૨૦૦૯	<ul style="list-style-type: none"> <li>• સાયટોલોજી વિભાગના મંજૂરી રજીસ્ટર, ઉત્પાદન રજીસ્ટર, સ્ટોર માંગણી પત્રક, મજૂરોનું હાજરી પત્રક, લેબર શીટ, ડેડસ્ટોક રજીસ્ટર, જીનીંગ રજીસ્ટર, સીલેક્શન રજીસ્ટર, અવલોકન રજીસ્ટર, તંતુ ચકાસણી અંગેની ફાઈલ તથા રીપેરીંગ ભંગાર રજીસ્ટર</li> </ul>
૩૧	દિવ્યેશ કે. છોડવડિયા ખેતી મદદનીશ બ.સ. ૨૦૦૯	<ul style="list-style-type: none"> <li>• ફાર્મ વિભાગના બીજ ઉત્પાદન રજીસ્ટર</li> <li>• બીજ ચકાસણી ફાઈલ</li> <li>• ફાર્મ વિભાગની રોજમેળ, ખાતાવહી ઉત્પાદન રજીસ્ટર</li> <li>• સીડ વિભાગની રોજમેળ, ખાતાવહી ઉત્પાદન રજીસ્ટર</li> <li>• ઝાડ રજીસ્ટર, ફાર્મ વિભાગનાં સ્થાનિક મંજૂરી રજીસ્ટર</li> <li>• ટ્રેકટર તથા બળદોનાં રેકોર્ડ અંગેની ફાઈલ</li> <li>• ફાર્મ ટ્રેકટર તથા હીસ્ટ્રીશીટ રજીસ્ટર</li> <li>• જનરલ પાક યોજના</li> <li>• સેઢાપાળની ઘાસોની હરાજી ફાઈલ</li> <li>• મોટર સાયકલ લોગબુક</li> </ul>

(૭) તેની નીતિ ઘડતરના અથવા તેના અમલીકરણના સંબંધમાં જનતાના સભ્યો સાથે વિચાર વિનિયમ માટે અથવા તેમના દ્વારા રજૂઆત માટેની વિદ્યમાન કોઈ વ્યવસ્થાની વિગતો,

નવસારી કૃષિ યુનિવર્સિટી, નવસારીની કુલસચિવશ્રી દ્વારા માહિતી મેળવવાના અધિકાર અધિનિયમ - ૨૦૦૫ અન્વયે કુલસચિવશ્રીના પત્ર નં. ન.કૃ.યુ /રજી/અ.૩.૩/ આર ટી આઈ/કા.આ/ ૮૫૦૧-૮૭૩૩/ ૨૦૧૨, નવસારી તા.૧૦-૫-૨૦૧૨ થી દરેક જુદી જુદી ઓફિસ / યુનિટ ના વડાઓને કાર્યાલયમાં આવતી કામગીરીની માહિતી પુરી પાડવા માટે જાહેર માહિતી અધિકારી, મદદનીશ જાહેર માહિતી અધિકારી તેમજ એપેલેટની નિમણુક કરવામાં આવેલ છે. કપાસ સંશોધનની કામગીરી આઈસીએઆર-એઆઈસીઆરપી ઓન કોટન, કોઈમ્બતુર અને આઈસીએઆર-સીઆઈસીઆર,

	<p>નાગપુર સાથે સંકલનમાં તેમજ રાજ્ય કક્ષાએ સ્ટેટ પ્લાન અને સ્ટેટ નોન પ્લાન યોજનાઓ અન્વયે કરવામાં આવે છે. ગુજરાત રાજ્યમાં આવેલ તમામ કપાસ સંશોધન કેન્દ્રોની કામગીરીનું આયોજન અને સંકલન સચુકત રીતે કરવામાં આવે છે. કપાસને લગતી અદ્યતનમાહિતીઓની જાહેર જનતાને કે કપાસનાં ખેડુતોને વિસ્તરણ પ્રવૃત્તિ અને રૂબરૂ મુલાકાત અન્વયે માહિતી અને માર્ગદર્શન પુરું પાડવામાં આવે છે. ખેડુતોની કપાસની સમસ્યા અંતર્ગત નવસારી કૃષિ યુનિવર્સિટીની ઝોનલ રીસર્ચ એક્ષ્ટેન્સન એન્ડ એડવાઈઝરી કમિટીમાં ખેતીવાડી ખાતાનાં અધિકારીશ્રીઓ પ્રશ્નોની રજૂઆત અને સમાધાન મેળવતાં હોય છે. વધુમાં, કપાસની ખેતી સાથે સંકળાયેલ તમામ સ્ટેક હોલ્ડર્સને જરૂરી તાંત્રિક માર્ગદર્શન પુરું પાડવામાં આવે છે. અત્રેની કચેરીમાં ગુજરાત રાજ્યમાં કપાસ સંશોધન ક્ષેત્રે થતી કામગીરી અંગે માહિતી પુરી પાડવા માટે સંશોધન વૈજ્ઞાનિકશ્રી(કપાસ)ને “જાહેર માહિતી અધિકારીશ્રી” અને સહ સંશોધન વૈજ્ઞાનિકશ્રીને “મદદનીશ જાહેર માહિતી અધિકારીશ્રી” તરીકે નિમણૂક આપવામાં આવેલ છે.</p>				
(૮)	<p>તેના ભાગ તરીકે અથવા તેની સલાહના હેતુ માટે બે અથવા તેથી વધુ વ્યક્તિઓના બનેલા બોર્ડ, કાઉન્સિલો, સમિતિઓ અને બીજા મંડળોનું પત્રક અને તે બોર્ડ, કાઉન્સિલો, સમિતિઓ અને બીજા મંડળોની બેઠકો લોકો માટે ખુલ્લી છે કે કેમ અથવા તેવી બેઠકોની કાર્ય નોંધો લોકોને મળવાપાત્ર છે કે કેમ;</p>				
	<p>સદરબેઠકો લોકો માટે ખુલ્લી નથી. તેમજ સદરબેઠકોની કાર્યનોંધો ફક્ત કચેરીના ઉપયોગ માટે મળવાપાત્ર છે.</p>				
(૯)	<p>તેના અધિકારીઓ અને કર્મચારીઓની માહિતી પુસ્તિકા;</p>				
	<p>યુનિવર્સિટી દ્વારા "સંપર્ક સેતુ" નામની માહિતી પુસ્તિકા અલગથી બહાર પાડવામાં આવેલ છે તેમજ તેની માહિતી યુનિવર્સિટીની વેબ સાઈટ પર (nau.in) ઉપલબ્ધ છે.</p>				
(૧૦)	<p>તેના વિનિયમોમાં જોગવાઈ કર્યા પ્રમાણે વળતરની પધ્ધતિ સહિત તેના દરેક અધિકારીઓ અને કર્મચારીઓને મળતાં માસિક મહેનતાણા;</p>				
	ક્રમ	અધિકારીશ્રી/ કર્મચારીશ્રીનું નામ	હોદ્દો	બજેટ સદર	પગાર ધોરણ (કુલ પગાર)
	૧	ડો. એમ.સી. પટેલ	સંશોધન વૈજ્ઞાનિક(કપાસ)	૫૦૦૯	૧૪૪૨૦૦-૨૧૮૨૦૦ (૩૩૮૬૫૭)
	૨	ડૉ. જી.ઓ.ફલ્કુ	સહ સંશોધન વૈજ્ઞાનિક	૫૦૦૯	૧૩૧૪૦૦-૨૧૭૧૦૦ (૨૫૧૧૩૪)
	૩	નીકીતા એસ.ડાભી	ખેતી મદદનીશ	૫૦૦૯	૨૯૨૦૦-૯૨૩૦૦ (૫૦૨૫૦)
	૪	ભાવના જે.મેવાડા	ખેતી મદદનીશ	૫૦૦૯	૨૫૫૦૦-૮૧૧૦૦ (૪૫૩૫૨)
	૫	દિપાલી એમ.બડવા	ખેતી મદદનીશ	૫૦૦૯	૨૫૫૦૦-૮૧૧૦૦ (૪૫૩૫૨)
	૬	જીજ્ઞાશા એસ.ગોહિલ	ખેતી મદદનીશ	૫૦૦૯	૨૫૫૦૦-૮૧૧૦૦ (૪૯૮૧૬)
	૭	જીજ્ઞેશ કે.ભરડા	ખેતી મદદનીશ	૫૦૦૯	૨૫૫૦૦-૮૧૧૦૦ (૪૯૮૧૬)
	૮	શ્રી એસ.બી.ચૌધરી	સીનીયર કલાર્ક	૫૦૦૯	૨૫૫૦૦-૮૧૧૦૦ (૬૭૯૪૬)
	૯	શ્રીમતી જે.એચ.પટેલ	સીનીયર કલાર્ક	૫૦૦૯	૨૫૫૦૦-૮૧૧૦૦ (૫૯૨૧૨)
	૧૦	કુ.હિરલ ટાંક	જુ.કલાર્ક	૫૦૦૯	૨૬૦૦૦ ફીકસ
	૧૧	શ્રી મિતુલ પી.અવેયા	જુ.કલાર્ક	૫૦૦૯	૨૬૦૦૦ ફીકસ
	૧૨	શ્રી બી.બી.ચૌધરી	પટાવાળા	૫૦૦૯	૧૫૦૦૦-૪૭૬૦૦ (૬૨૨૭૦)
	૧૩	શ્રી પી.જી.સોનેરી	લેબ બોય	૫૦૦૯	૧૫૭૦૦-૫૦૦૦૦ (૬૨૪૫૬)
	૧૪	ડો. એચ.આર.દેસાઈ	સહ સંશો. વૈજ્ઞા.(એન્ટો.)	૧૨૦૦૯	૧૪૪૨૦૦-૨૧૮૨૦૦ (૩૨૮૭૩૮)
	૧૫	ડૉ.એમ.એમ.પટેલ	સહ સંશોધન વૈજ્ઞાનિક	૧૨૦૦૯	૧૪૪૨૦૦-૨૧૮૨૦૦ (૨૮૩૬૭૨)
	૧૬	શ્રી ડી.એમ.પટેલ	મદદ. સંશો.વૈજ્ઞા.(બ્રીડીંગ)	૧૨૦૦૯	૧૩૧૪૦૦-૨૧૭૧૦૦ (૨૫૧૩૦૯)
	૧૭	ડૉ. પ્રિતી આર.પરમાર	મદદ.સંશો.વૈજ્ઞા.(માઈક્રોબાયો.)	૧૨૦૦૯	૭૯૮૦૦-૨૧૧૫૦૦(૧૪૮૬૪૮)
	૧૮	જયોતિ એમ.વર્મા	સ્ટેનો ગ્રેડ-૨	૧૨૦૦૯	૩૫૪૦૦-૧૧૨૪૦૦ (૬૪૭૮૦)
	૧૯	ડૉ. ડી.એચ.પટેલ	સહ સંશોધન વૈજ્ઞાનિક	૧૨૦૧૪	૧૪૪૨૦૦-૨૧૮૨૦૦ (૨૮૩૬૭૨)
	૨૦	ડૉ. જી.આર.ભંડેરી	મદદ.સંશો.વૈજ્ઞા.(કીટકશાસ્ત્ર)	૧૨૦૧૪	૧૪૪૨૦૦-૨૧૮૨૦૦ (૨૫૯૬૬૦)
	૨૧	ડો. આર.બી.કટગી	મદદ.સંશો.વૈજ્ઞા.(બાયો-ટેક)	૧૨૦૧૪	૧૩૧૪૦૦-૨૧૭૧૦૦ (૨૧૫૦૪૪)
	૨૨	ડૉ.એચ.ઈ.પાટીલ	સંશોધન વૈજ્ઞાનિક	૨૦૦૯	૧૪૪૨૦૦-૨૧૮૨૦૦ (૨૮૩૬૭૨)
	૨૩	ડૉ. પી.બી.સાંદીપન	મદદ. સંશો.વૈજ્ઞા.(પેથોલોજી)	૨૦૦૯	૧૩૧૪૦૦-૨૧૭૧૦૦ (૨૧૫૦૪૪)
	૨૪	ડૉ. હિતેશ આર.રામાણી	મદદ. સંશો. વૈજ્ઞા.(બાયો.કેમ.)	૨૦૦૯	૭૯૮૦૦-૨૧૧૫૦૦(૧૩૫૦૯૭)
	૨૫	ડૉ. આર.ડી.પટેલ	મદદ. સંશો.વૈજ્ઞા.(કીટકશાસ્ત્ર)	૨૦૦૯	૭૯૮૦૦-૨૧૧૫૦૦(૧૩૫૦૯૭)

૨૬	શ્રી કે.બી. સાંકટ	મદદનીશ સંશો.વૈજ્ઞા.(એગ્રી.ઈકો)	૨૦૦૯	૧૪૪૨૦૦-૨૧૮૨૦૦ (૨૨૯૧૦૬)
૨૭	શ્રી વિ.કે. વેકરીયા	મદદનીશ સંશો.વૈજ્ઞા.(એગ્રો)	૨૦૦૯	૭૯૮૦૦-૨૧૧૫૦૦(૧૪૩૧૫૬)
૨૮	શ્રી.કે.કે.લાડ	ખેતી નિરીક્ષક	૨૦૦૯	૩૯૯૦૦-૧૨૬૬૦૦ (૧૨૩૦૭૦)
૨૯	શ્રી આર. બી. ટર્નર	ખેતી નિરીક્ષક	૨૦૦૯	૨૯૨૦૦-૯૨૩૦૦ (૬૧૪૬૮)
૩૦	શ્રી ભાવેશ એચ.ગજેરા	ખેતી નિરીક્ષક	૨૦૦૯	૨૯૨૦૦-૯૨૩૦૦ (૬૧૯૯૬)
૩૧	દિવ્યેશ કે. છોડવડિયા	ખેતી મદદનીશ	૨૦૦૯	૨૯૨૦૦-૯૨૩૦૦ (૫૦૨૫૦)

(૧૧) તમામ યોજનાઓ, સૂચિત ખર્ચ અને ચુકવેલા નાણાં પરના અહેવાલોની વિગતો દર્શાવતી, તેની દરેક એજન્સીને ફાળવેલ અંદાજપત્ર,

સરકારશ્રીના કૃષિ અને સહકાર વિભાગ દ્વારા વિવિધ પ્લાન તથા નોન પ્લાન યોજનાઓનું બજેટ મંજૂર કરી યુનિવર્સિટી દ્વારા વિવિધ યોજનાઓ પ્રમાણે આયોજન અધિકારીશ્રી તથા હિસાબી અધિકારી-વ-હિસાબ નિયામકશ્રી મારફત ફાળવવામાં આવે છે. આ ફાળવેલ ગ્રાન્ટ મુજબ નાણાંકીય વર્ષદરમ્યાન ખર્ચ કરવામાં આવે છે અને વર્ષના અંતે યુનિવર્સિટી દ્વારા સંયુક્ત અહેવાલ તૈયાર કરવામાં આવે છે. હિસાબી અહેવાલ અત્રેની યુનિવર્સિટીના હિસાબી અધિકારી-વ-હિસાબનિયામકશ્રી દ્વારા તૈયાર કરવામાં આવે છે, જેને સરકારશ્રીમાં રજૂ કરવામાં આવે છે. આ ઉપરાંત આઈસીએઆર યોજનાઓની પ્રોજેક્ટ કો-ઓર્ડિનેટરશ્રી, (કપાસ) દ્વારા વિવિધ આઈસીએઆરની ગ્રાન્ટ મંજૂર કરી અત્રેના કેન્દ્રને ફાળવવામાં આવે છે. આ ફાળવેલ ગ્રાન્ટ મુજબ નાણાંકીય વર્ષદરમ્યાન ખર્ચ કરવામાં આવે છે અને વર્ષના અંતે ગ્રાન્ટ વપરાશ પ્રમાણપત્ર હિસાબી અધિકારી-વ-હિસાબ નિયામકશ્રી દ્વારા તૈયાર કરવામાં આવે છે અને પ્રોજેક્ટ કો-ઓર્ડિનેટરશ્રી, (કપાસ) મારફત આઈસીએઆરમાં રજૂ કરવામાં આવે છે.

(તા.૦૧/૦૫/૨૦૨૫ની પરિસ્થિતિએ યોજના અને ગ્રાન્ટની વિગત)

ક્રમ	યોજનાનું નામ	યોજનાનું બજેટ સદર	મંજૂર થયેલ ગ્રાન્ટ વર્ષ ૨૦૨૫-૨૬	થયેલ ખર્ચ વર્ષ ૨૦૨૫-૨૬
<b>આઈ.સી.એ.આર.</b>				
૧	ઓલ ઈન્ડિયા કો-ઓર્ડિનેટેડ રીસર્ચ પ્રોજેક્ટ ઈન કોટન	૨૦૦૯	૨૩૬૫૬૩૧૭.૦૬	૨૧૪૬૪૬૯૩.૦૬
<b>પ્લાન સ્કીમ</b>				
૨	એસ્ટાબ્લીસમેન્ટઓફ સેન્ટર એફ એક્સલન્સ ફોર કોટન	૧૨૦૦૯	૨૧૨૬૫૦૦૦.૦૦	૨૧૧૭૮૨૯૫.૦૦
૩	સ્ટ્રેન્ધનીંગ ઓફ ફેસિલીટી ફોર ડેવલોપમેન્ટ ઓફ ટ્રાન્સજેનીક કોટન	૧૨૦૧૪	૧૫૧૫૦૦૦૦.૦૦	૧૫૦૮૭૭૬૦.૦૦
<b>નોન પ્લાન સ્કીમ</b>				
૪	પ્રોજેક્ટ ફોર રીસર્ચ ઈન કોટન	૫૦૦૯	૧૬૩૦૦૦૦૦.૦૦	૧૬૧૫૭૫૧૯.૦૦
<b>અધર એજન્સી સ્પોન્સર્ડ બાય પ્રાઈવેટ કંપની</b>				
૫	ટેસ્ટીંગ ઓફ બીટી હાઈબ્રીડ / વેરાયટીઝ ઓફ કોટન રીસીલ્ડ થ્રુ આઈસીએઆર	૨૦૦૯-૦૪	૩૬૮૦૫૨૧.૦૦	૩૨૯૩૨૧૦.૦૦
૬	એવલ્યુશન ઓફ બી.ટી.કોટન હાઈબ્રીડ ઓફ પ્રાઈવેટ કંપની	૧૮૯૩૫	૨૯૭૬૪૦૧.૦૦	૯૩૩૩૩૩.૦૦
૭	Bio-safety research trial (BRL.1) for transgenic hybrids and events on evaluate insect resistance (Pink Bollworm) in cotton hybrids carrying selected transgenic event at Navsari Agricultural University, Surat	૧૮૨૭૯	૨૬૫૧૬૮૬.૦૦	૫૬૯૫૮૮.૦૦
<b>એન.એફ.એસ.એમ. એફ.એલ.ડી.</b>				
૭	નેશનલ ફુડ સીક્યુરીટી મીશન - કોટન એફ.એલ.ડી.- (એ.આઈ.સી.આર.પી. સ્ટાફ દ્વારા)	૨૦૭૯	૨૦૧૨૨૨.૦૦	૪૩૨૮૮.૦૦
૮	નેશનલ ફુડ સીક્યુરીટી મીશન : કોમર્શીયલ ક્રોપ : કોટન : આઈ.આર.એમ. : પીક બોલ વોર્મ	૨૧૧૧	૬૯૫૯૦૬.૦૦	૫૦૯૪૭૯.૦૦
૯	પ્રિબીડીંગ એક્ટીવીટીસ એઆઈસીઆરપી, કોટન	૨૧૩૮	૧૦૪૭૪૬૨.૦૦	૩૩૪૬૧૨.૦૦

(૧૨) ફાળવેલ રકમો સહિત સબસીડી કાર્યક્રમોની અમલ બજવણીની રીત અને એવા કાર્યક્રમોના લાભાર્થીઓની વિગતો.


ઉપરોક્ત મુદ્દો અત્રેના કેન્દ્રને લાગુ પડતો નથી. તેમ છતાં કેન્દ્ર સરકાર/રાજ્ય સરકારશ્રી દ્વારા પ્રોજેક્ટમાં નિદર્શનની જોગવાઈ હેઠળ તેના નિયમમુજબ લાભાર્થી નક્કી કરવામાં આવે છે. જે માહિતી અત્રેની કચેરીએથી મળી શકે.


(૧૩) તેણે આપેલ છૂટછાટો, પરવાનગીઓ અથવા અધિકૃતિઓ મેળવનારાની વિગતો;

ઉપરોક્ત મુદ્દો અત્રેના કેન્દ્રને લાગુ પડતો નથી.

(૧૪) ઈલેક્ટ્રોનિક સ્વરૂપમાં તેને ઉપલબ્ધ અથવા તેની પાસેની માહિતીને લગતીવિગતો ;

	ઉપરોક્ત મુદ્દો અત્રેના કેન્દ્રને લાગુ પડતો નથી.
(૧૫)	જાહેર ઉપયોગ માટે નિભાવવામાં આવતા હોય, તો તેવા ગ્રંથાલય અથવા તેના વાંચનકક્ષના કામકાજના કલાકો સહિતની માહિતી મેળવવા માટે નાગરિકોને ઉપલબ્ધ સુવિધાઓની વિગતો;
	અત્રેના કેન્દ્ર દ્વારા ખેડૂતોપયોગી વિવિધકૃષિ સાહિત્યો બહાર પાડવામાં આવે છે અને આ સાહિત્યો ખેડૂતોને વિના મુલ્યે વહેંચણી કરવામાં આવે છે. અત્રેના કેન્દ્ર ખાતે આવતાં મુલાકાતીઓને જરૂરી સમજણ આપવામાં આવે છે. અત્રેના કેન્દ્ર ખાતે એક મ્યુઝીયમ પણ બનાવવામાં આવેલ છે જેમાં કપાસની વિવિધ જાતો અને વિવિધ ટેકનોલોજીને લગતા નમુના, ચાર્ટ્સ વિગેરે પ્રદર્શિત કરેલા છે. જે મુલાકાતીઓ કચેરી સમય દરમ્યાન જોઈ શકે છે. નવસારી કૃષિ યુનિવર્સિટીની વેબસાઈટ ઉપર સંશોધન કેન્દ્રોની વિગતમાં ખેડૂતો માટે માર્ગદર્શનની માહિતી મુકવામાં આવે છે. વધુમાં મુલાકાત લેનાર ખેડૂતોને જરૂરી તાંત્રિકતા માટેનાં પ્રદર્શિત કરેલ ફોલ્ડરો આપવામાં આવે છે.
(૧૬)	જાહેર માહિતી અધિકારીઓના નામો, હોદ્દો અને બીજી વિગતો ;
	કચેરીનું નામ: સંશોધન વૈજ્ઞાનિકશ્રી(કપાસ)નીકચેરી, માહિતી અધિકારીનું નામ: ડૉ. મનહરભાઈ સી. પટેલ હોદ્દો: સંશોધન વૈજ્ઞાનિક(કપાસ) મુખ્ય કપાસ સંશોધન કેન્દ્ર, નવસારી કૃષિ યુનિવર્સિટી, સુરત-૩૯૫ ૦૦૭ ફોન નંબર:(૦૨૬૧)૨૬૬૮૦૪૫ મોબાઈલ નંબર: ૯૬૩૮૭ ૭૦૭૭૨ અને ૮૫૧૧૧૮૭૨૨૪
(૧૭)	ઠરાવવામાં આવે તેવી બીજી માહિતી; પ્રસિધ્ધ કરવી જોઈશે અને ત્યારપછી દર વર્ષે આ પ્રકાશનોને અદ્યતન કરવા જોઈએ.
	- હા - પ્રકાશનો નિયમિતરૂપે અદ્યતન કરવામાં આવે છે.

  
(દેસાઈ એચ.આર.)  
મદદનીશ જાહેર માહિતી અધિકારી અને  
સહ સંશોધન વૈજ્ઞાનિક,  
મુખ્ય કપાસ સંશોધન કેન્દ્ર,  
નવસારી કૃષિ યુનિવર્સિટી,  
સુરત

  
(પટેલ એમ.સી.)  
જાહેર માહિતી અધિકારીશ્રી  
અને સંશોધન વૈજ્ઞાનિક(કપાસ)  
મુખ્ય કપાસ સંશોધન કેન્દ્ર  
નવસારી કૃષિ યુનિવર્સિટી,  
સુરત

આરટીઆઈ કાયદાની કલમ ૪(૧)ખટશઅ, કલમ ૫(૩), કલમ ૬(૪) મુજબની માહિતી

કચેરીનું નામ	જાહેર માહિતી અધિકારી(P.I.O)	મદદ.જાહેર માહિતી અધિકારી(A.P.I.O)	એપેલેટ ઓથોરીટી	RTI-2005 હેઠળની માહિતી અંગેની કામગીરી
સંશોધન વૈજ્ઞાનિકશ્રી મુખ્ય કપાસ સંશોધન કેન્દ્ર, નવસારી કૃષિ યુનિવર્સિટી, સુરત	ડો. એમ.સી. પટેલ, સંશોધન વૈજ્ઞાનિક, મુખ્ય કપાસ સંશોધન કેન્દ્ર, નવસારી કૃષિ યુનિવર્સિટી, સુરત	ડો. એચ.આર. દેસાઈ, સહ સંશોધન વૈજ્ઞાનિક, મુખ્ય કપાસ સંશોધન કેન્દ્ર, નવસારી કૃષિ યુનિવર્સિટી, સુરત	સંશોધન નિયામકશ્રી નવસારી કૃષિ યુનિવર્સિટી નવસારી	કપાસ સંશોધન અને અઠવા ફાર્મ ઉપર માળખાગત સુવિધાઓને લગતી કામગીરી



(પટેલ એમ.સી.)

જાહેર માહિતી અધિકારીશ્રી  
અને સંશોધન વૈજ્ઞાનિક(કપાસ)  
મુખ્ય કપાસ સંશોધન કેન્દ્ર  
નવસારી કૃષિ યુનિવર્સિટી  
સુરત

## એનેક્ષર-એ

(સામાન્ય વહીવટ વિભાગના તા.૦૧/૦૫/૨૦૦૯ના પરિપત્ર ક્રમાંક: પીએડી-૧૦-૨૦૦૭-૩૩૫૩૬૪- આરટીઆઈસેલનું બિડાણ)

### પ્રમાણપત્ર

આથી પ્રમાણિત કરવામાં આવે છે કે માહિતી અધિકાર અધિનિયમની કલમ-૪ અંતર્ગત સ્વયં જાહેર કરવાની બાબતો "પ્રોએક્ટીવ ડીસ્ક્લોઝર"(P.A.D.) મારા વિભાગ દ્વારા તૈયાર કરવામાં આવેલ છે અને તા.૦૧/૦૫/૨૦૨૬ની સ્થિતિએ અમારી મંજૂરી મેળવી અદ્યતન કરવામાં આવેલ છે.

તારીખ : ૦૧/૦૫/૨૦૨૬



(પટેલ એમ.સી.)

જાહેર માહિતી અધિકારી અને  
સંશોધન વૈજ્ઞાનિક(કપાસ)  
મુખ્ય કપાસ સંશોધન કેન્દ્ર,  
અઠવા ફાર્મ, સુરત-૩૬૫ ૦૦૭  
ફો.નં. ૦૨૬૧-૨૬૬૮૦૪૫  
ઈ-મેઈલ : [cottonist@nau.in](mailto:cottonist@nau.in)  
વેબ સાઈટ : [www.nau.in](http://www.nau.in)

## એનેક્ષર-બી (B)

(સામાન્ય વહીવટ વિભાગના તા.૦૧.૦૫.૨૦૦૯ ના પરિપત્ર ક્રમાંજ: પીએડી-૧૦-૨૦૦૭-૩૩૫૩૬૪-  
આરટીઆઇસેલનું બિડાણ)

### પ્રમાણપત્ર

આથી પ્રમાણિત કરવામાં આવે છે કે માનનીય સાહેબશ્રી, વડી કચેરી (પ્રોપર) તથા માનનીય સાહેબશ્રી, વહીવટી કાર્યક્ષેત્રનાં આ સાથેની યાદી મુજબનાં જાહેર સત્તામંડળો દ્વારા માહિતી અધિકાર અધિનિયમની કલમ-૪ અંતર્ગત સ્વયં જાહેર કરવાની બાબતો " પ્રોએક્ટીવ ડિસ્ક્લોઝર " (P.A.D.) તૈયાર કરવામાં આવી છે. અને તા. ૧/૫/૨૦૨૬ ની સ્થિતિએ તે સંશોધન વૈજ્ઞાનિક (કપાસ), મુખ્ય કપાસ સંશોધન કેન્દ્ર, નવસારી કૃષિ યુનિવર્સિટી, સુરત દ્વારા અદ્યતન કરવામાં આવેલ છે. જેનું અમારા દ્વારા માહે : મે / જુન ૨૦૨૬ (વર્ષ) દરમ્યાન ઈન્સપેક્શન -કમ - ઓડિટ કરવામાં આવ્યું છે અને જે બાબતે ક્ષતિ જણાઈ હતી અગર અપુરતી વિગતો જણાઈ હતી તેની પુર્તતા કરવામાં આવી છે.

(૨) તા. ૩૦/૬/૨૦૨૬ (વર્ષ) ની સ્થિતિએ હવે કોઈ જાહેર સત્તામંડળનાં (પ્રોએક્ટીવ ડિસ્ક્લોઝર) ઈન્સપેક્શન -કમ - ઓડિટ બાકી રહેલ નથી.

તારીખ : ૨૯/૦૫/૨૦૨૬

મુખ્ય મથક: નવસારી

સંશોધન નિયામક અને  
અનુસ્નાતક વિદ્યાશાખાધ્યક્ષ,  
નવસારી કૃષિ યુનિવર્સિટી,  
નવસારી.

## (१) वैज्ञानिक प्रमाणों अर्पणराओनी यादी (२०२४-२५)

Name of the Scientist	Sl	Name of experiment	B. H.
Dr. M.C. Patel Research Scientist(Cotton)	1	Co-ordination, compilation, preparation of research report and presentation of the following trial results at national as well as state level and its technical correspondence	5009
	2	Worked as Member of DAG Bt testing in Gujarat State & Member Secretary of IBSC	
Dr. G. O. Faldu Assistant Research Scientist, Hybrid Section & Desi Cotton Section	1	Br.32b. IET of <i>G. herbaceum</i> (Rainfed)	2009
	2	MLT of <i>G. herbaceum</i> cotton	12009
	3	LSVT of <i>G. herbaceum</i> cotton	12009
	4	SSVT of <i>G. herbaceum</i> cotton	12009
	5	PET Set-I of <i>G. herbaceum</i> cotton	12009
	6	PET Set-II of <i>G. herbaceum</i> cotton	12009
	7	Crossing Programme	5009
	8	Study of F <sub>1</sub> Crosses	5009
	9	Study of F <sub>2</sub> generation	5009
	10	Study of F <sub>3</sub> generation	5009
	11	Study of F <sub>5</sub> generation	5009
	12	Study of F <sub>6</sub> and further generation	5009
	13	Progeny of Sujay	5009
	14	Progeny of 4011	5009
	15	Progeny of GN Cot 27	5009
	16	Maintenance of <i>G. herbaceum</i> Cotton	5009
	17	Maintenance of <i>G. arboretum</i> Cotton	5009
	18	Initial Evaluation of Intra-Hirsutum Hybrids-Rainfed(ICAR Bt Trial)	2009-4
	19	Advanced Evaluation Trial-II of Intra-Hirsutum Hybrids-Rainfed (ICAR Bt Trial)	2009-4
	20	Br. 02 C-Initial Evaluation of <i>G. hirsutum</i> under organic conditions-Rainfed (NT)	2009-4
	21	Br.03C PVT of <i>G. hirsutum</i> under organic conditions-Rainfed (CZ)	2009
	22	Br.05 C- CHT of H x H hybrids under organic conditions-Rainfed (CZ)	2009
	23	SSHT of HH hybrids under organic conditions	12009
	24	Preliminary Evaluation Trial of Bt HH Hybrids Under Irrigated Condition (PET Bt HH SET-I)	12009
	25	Preliminary Evaluation Trial of Bt HH Hybrids Under Irrigated Condition (PET Bt HH SET-II)	12009
	26	Progeny of American nectariless	5009
	27	Progeny of Surat Dwarf	5009
	28	Progeny of BC 68-2WW variety	5009
	29	Progeny of LRA-5166	5009
	30	Progeny of G.Cot.16	5009
	31	Progeny of 76-IH-20	5009
	32	Progeny of GSHV-112 variety	5009
	33	Progeny of GSB-39	5009
	34	Progeny of GSHV-01/1338	5009
	35	Progeny of GSHV-99/291	5009
	36	Progeny of G-27	5009
	37	Progeny of 824	5009
	38	Crossing Block of promising and released hybrids	
	39	Crossing Block Lx T (4x8)	5009
	40	Crossing Block Lx T (3x10)	5009
	41	Maintenance of Promising materials of <i>G.hirsutum</i>	5009
	42	Maintenance of trait specific materials of <i>G.hirsutum</i>	
	43	Maintenance of Crossing Block parents (CBP I and CBP-II)	5009
	44	Maintenance of Nagpur Selection	5009
	45	Pre Breeding Materials	313/02138

	46	MAGIC Population	5009
	47	Demonstration of released and promising hybrids	5009
	48	Maintenance of <i>G.hirsutum</i> –Germplasm	5009
	49	Nursery	5009
Dr. D. M. Patel Assistant Research Scientist (Plant Breeding & Genetics), Indo-American Section	1	IET of hirsutum Bt Cotton varieties under rainfed condition. (ICAR-Bt) [IET Hir.Bt.Var. -RF]	2009-4
	2	AET-II of hirsutum Bt Cotton varieties under rainfed condition. (ICAR-Bt) [AET-II Hir.Bt.Var.-RF]	2009-4
	3	AET-I of Intra-Hirsutum Bt cotton Hybrids under rainfed condition (ICAR-Bt) AET-I : H x H -RF	2009-4
	4	PET of <i>G. hirsutum</i> cotton.	5009
	5	SSVT of <i>G. hirsutum</i> cotton.	12009
	6	SSVT of <i>G. hirsutum</i> cotton under Organic conditions	12009
	7	Study of <i>intra hirsutum</i> crosses in F <sub>7</sub> generation	5009
	8	Study of <i>intra hirsutum</i> crosses in F <sub>6</sub> generation	5009
	9	Study of <i>intra hirsutum</i> crosses in F <sub>5</sub> generation	5009
	10	Study of <i>intra hirsutum</i> crosses in F <sub>4</sub> generation	5009
	11	Study <i>intra hirsutum</i> crosses in F <sub>3</sub> generation.	5009
	12	Study <i>intra hirsutum</i> crosses in F <sub>2</sub> generation	5009
	13	Study of <i>intra hirsutum</i> BG-II crosses in F <sub>1</sub> generation.	5009
	14	Progeny Row Trial of G.Cot.100	5009
	15	Progeny Row Trial of G.Cot.10	5009
	16	Progeny Row Trial of G.Cot.12	5009
	17	Progeny Row Trial of G.Cot.16	5009
	18	Progeny Row Trial of G.Cot.20	5009
	19	Progeny Row Trial of GN.Cot.22	5009
	20	Progeny Row Trial of GN.Cot.32	5009
	21	Progeny Row Trial of G.Cot.34	5009
	22	Progeny Row Trial of G.Cot.36	5009
	23	Progeny Row Trial of G.Cot.40	5009
	24	Progeny Row Trial of G.Cot.42	5009
	25	Progeny Row Trial of GN.Cot.44	5009
	26	Progeny Row Trial of Gujarat 67	5009
	27	Progeny Row Trial of Deviraj	5009
	28	Multi project trials	5009
	29	Seed production of Hirsutum Cotton BG-II Hybrids	5009
	30	Conversion Programme of parental lines too BG II background	5009
	31	Crossing Block BG-II (L x T)	5009
	32	Maintenance of Hirsutum Cotton Germplasm lines	5009
Dr. D. H. Patel Assistant Research Scientist, Cytology and Biotechnology Section	1	Induced mutagenesis for high yield and fibre quality in cotton ( <i>G. hirsutum</i> L.)	12009
	2	Heterosis and combining ability analysis in cotton ( <i>G.hirsutum</i> L)	12009
	3	PRT of SRT GMS-1	5009
	4	PRT of GSav-1056	5009
	5	Evaluation and maintenance of CMS A & B lines (Fully converted)	5009
	6	Evaluation of GMS (4x) lines	5009
	7	Evaluation of available restorer lines	5009
	8	Evaluation of available GMS lines in desi cotton	5009
	9	Evaluation of petaloidy in desi cotton.	5009
	10	Seed production programme for GMS based desi hybrid	5009
	11	Crossing programme of multispecies cross derivatives	5009
	12	Development of Recombinant Inbred Lines (RIL) in <i>G. arboreum</i>	5009
	13	Maintenance and evaluation of cotton germplasm (Interspecific derivatives)	5009
	14	Maintenance of mapping population for jassid resistance in cotton	5009
	15	Maintenance of parental lines	12014
	16	IET- Hirsutum (C) Varieties - rainfed under protected condition	2009-4

	17	AET-I Hirsutum x Hirsutum (C) Hybrid – rainfed under protected condition	2009-4
	18	IET- Hirsutum x Hirsutum (C) Hybrid - rainfed under protected condition	2009-4
	19	AET-I Hirsutum (C) Varieties - rainfed under protected condition	2009-4
	20	SSHT of Bt cotton hybrids developed by SAUs under irrigated conditions	12014
	21	SSVT of BG-II cotton varieties developed by SAUs under irrigated conditions	12014
	22	Evaluation of hirsutum Bt varieties developed by MCRS, Surat under irrigated condition	12014
	23	Evaluation of New Bt cotton hybrids	12014
	24	Seed multiplication of <i>CryIAc</i> and BG II genotypes	12014
	25	PRT of G.Cot.10 (BGII)	12014
	26	PRT of G.Cot.16 (BGII)	12014
	27	PRT of BC-68-2 (BGII)	12014
	28	PRT of BC 68-2-1 Big leaf (BGII)	12014
	29	PRT of G.Cot.10 <i>CryIAc</i>	12014
	30	PRT of G.Cot.16 <i>CryIAc</i>	12014
	31	PRT of BC 68-2 <i>CryIAc</i>	12014
	32	Maintenance of Bt parental lines ( <i>Cry IAc</i> and BGII )	12014
	33	Evaluation and Converted parental lines (BGII background)	12014
	34	Conversion of G.Cot.10 GMS into BG-II background	12014
	35	Evaluation of converted female parent line of LHH-144 BGII	12014
	36	Evaluation of Bt introgressed lines received from CICR nagpur	12014
	37	Evaluation of collected germplasm for big boll	12014
	38	Crossing programme for development of new Bt cotton hybrids	12014
	39	Seed production programme for Bt Cotton hybrid	12014
	40	Evaluation of BC <sub>6</sub> F <sub>6</sub> <i>CryIAc</i> converted parental lines	12014
	41	Evaluation of BC <sub>6</sub> F <sub>6</sub> converted parental lines of BGII background	12014
	42	Evaluation of ELS Bt line (new)	12014
	43	Maintenance of Bt parental lines	12014
	44	Converted parental lines of BGII background	12014
Dr. Rajkumar B. K. Assistant Research Scientist (Plant Biotech.) Cytology & Biotechnology Section	1	Induced mutagenesis for high yield and fibre quality in cotton ( <i>G. hirsutum</i> L.)	12009
	2	Heterosis and combining ability analysis in cotton ( <i>G.hirsutum</i> L	12009
	3	PRT of SRT GMS-1	5009
	4	PRT of GSav-1056	5009
	5	Evaluation and maintenance of CMS A & B lines (Fully converted)	5009
	6	Evaluation of GMS (4x) lines	5009
	7	Evaluation of available restorer lines	5009
	8	Evaluation of available GMS lines in desi cotton	5009
	9	Evaluation of petaloidy in desi cotton.	5009
	10	Seed production programme for GMS based desi hybrid	5009
	11	Crossing programme of multispecies cross derivatives	5009
	12	Development of Recombinant Inbred Lines (RIL) in <i>G. arboreum</i>	5009
	13	Maintenance and evaluation of cotton germplasm (Interspecific derivatives)	5009
	14	Maintenance of mapping population for jassid resistance in cotton	5009
	15	Maintenance of parental lines	12014
	16	IET- Hirsutum (C) Varieties - rainfed under protected condition	2009-4
	17	AET-I Hirsutum x Hirsutum (C) Hybrid–rainfed under protected condition	2009-4
	18	IET- Hirsutum x Hirsutum (C) Hybrid - rainfed under protected condition	2009-4
	19	AET-I Hirsutum (C) Varieties - rainfed under protected condition	2009-4
	20	SSHT of Bt cotton hybrids developed by SAUs under irrigated conditions	12014
	21	SSVT of BG-II cotton varieties developed by SAUs under irrigated conditions	12014
	22	Evaluation of hirsutum Bt varieties developed by MCRS, Surat under irrigated condition	12014

	23	Evaluation of New Bt cotton hybrids	12014
	24	Seed multiplication of <i>CryIAc</i> and BG II genotypes	12014
	25	PRT of G.Cot.10 (BGII)	12014
	26	PRT of G.Cot.16 (BGII)	12014
	27	PRT of BC-68-2 (BGII)	12014
	28	PRT of BC 68-2-1 Big leaf (BGII)	12014
	29	PRT of G.Cot.10 <i>CryIAc</i>	12014
	30	PRT of G.Cot.16 <i>CryIAc</i>	12014
	31	PRT of BC 68-2 <i>CryIAc</i>	12014
	32	Maintenance of Bt parental lines ( <i>Cry IAc</i> and BGII )	12014
	33	Evaluation and Converted parental lines (BGII background)	12014
	34	Conversion of G.Cot.10 GMS into BG-II background	12014
	35	Evaluation of converted female parent line of LHH-144 BGII	12014
	36	Evaluation of Bt introgressed lines received from CICR nagpur	12014
	37	Evaluation of collected germplasm for big boll	12014
	38	Crossing programme for development of new Bt cotton hybrids	12014
	39	Seed production programme for Bt Cotton hybrid	12014
	40	Evaluation of BC <sub>6</sub> F <sub>6</sub> <i>CryIAc</i> converted parental lines	12014
	41	Evaluation of BC <sub>6</sub> F <sub>6</sub> converted parental lines of BGII background	12014
	42	Evaluation of ELS Bt line (new)	12014
	43	Maintenance of Bt parental lines	12014
	44	Converted parental lines of BGII background	12014
	45	Study on bacterial decomposition of cotton stalk in the soil and its effect on cotton seedling growth	12009
	46	<i>In vitro</i> study on seed bio-priming with wild cotton endophytic bacteria and its effect on morphometric and biochemical profile of cotton seedling under soil salinity stress	12009
Dr. M.M. Patel Associate Research Scientist (Agronomy) AGRONOMY Section	1	Agronomic requirements of promising pre-release <i>Bt</i> cotton hybrid (C9339 BG-II)	2009
	2	Developing and testing of <i>Bt</i> cotton based cropping system to enhance resource utilization and sustainability	2009
	3	Input use pattern & cost of cultivation	2009
	4	Canopy management in compact genotypes	2009
	5	Developing and testing of organic nutrient, pest and disease management module in cotton based cropping system (Only Reporting work)	2009
	6	Effect of fertigation on growth, yield and quality of <i>Bt</i> cotton under drip irrigation	12009
	7	Integrated nutrient management in cotton-green gram cropping sequence	12009
	8	Permanent small plot trial for studying the long term effect of phosphorus on cotton (G.N.Cot.-25) under rainfed condition	12009
	9	Permanent small plot trial for studying the long term effect of phosphorus on cotton (G. Cot. Hy-12, BG II) under irrigated condition	12009
Dr. K. B. Sankat Assistant Research Scientist (Agronomy) AGRONOMY Section	1	Agronomic requirements of promising pre-release <i>Bt</i> cotton hybrid (C9339 BG-II)	2009
	2	Agronomic requirements of promising pre-release <i>Bt</i> cotton hybrid (NBC 21 BG-II)	2009
	3	Agronomic requirements of promising pre-release <i>Bt</i> cotton hybrid (DC 5105 BG-II)	2009
	4	Developing and testing of <i>Bt</i> cotton based cropping system to enhance resource utilization and sustainability	2009
	5	Yield maximization of <i>Bt</i> cotton by integrated crop management techniques	2009
	6	Input use pattern & cost of cultivation (Survey work)	2009
	7	Canopy management in compact genotypes	2009
	8	Use of Defoliant to facilitate mechanical picking	2009
	9	Developing and testing of organic nutrient, pest and disease management module in cotton based cropping system	2009

	10	Effect of foliage spray of liquid nano urea on cotton under irrigated condition	12009
	11	Effect of fertigation on growth, yield and quality of <i>Bt</i> cotton under drip irrigation	12009
	12	Evaluation of Cyclanilide 45.9 g/l + Ethephon 731 g/l SC on cotton crop financed by Bayer Crop Science Ltd., Indore	Other Agency
Dr. Hitesh Ramani Assitant Research Scientist (Biochem)	1	Screening of Cotton genotypes for drought tolerance	2009
	2	Estimation of seed oil, gossypol and protein	2009
	3	Bio Chem.2A : Analysis of Biochemical constituent of management of square shedding in cotton (PHY-1)	2009
	4	Bio Chem.2B : Analysis of Biochemical constituent Drone-based(PHY-2)	2009
	5	Bio Chem. 2C: Analysis of Biochemical constituent of Canopy management in compact genotypes (AGRO-VIII)	2009
	6	Bio Chem.2D : Analysis of Biochemical constituent of Preparing for organic cotton (Agronomy-XI)	2009
	7	Bio Chem.2E : Analysis of Biochemical constituent of defoliant experiment (AGR-X)	2009
	8	Effect of Phyto-hormone spray on yield and quality of cotton	2009
	9	Effect of storage condition and packaging on seed germination of different cotton species (17. 2.20)	12009
	10	19.2.9:Effect of different defoliant on HDPS cotton	12009
	11	Screening of cotton genotype for salinity tolerant (19.2.10)	12009
	12	Metabolic profiling of damaged and healthy petal tissue of the infested cotton flower by pink bollworm ( <i>Pectinophora gossypiella</i> ) (20.6.3.19)	12009
	13	Management of square shedding in cotton	2009
	14	Drone based application of nutrients in cotton	2009
	15	Recording of physiological parameters in agronomic trial of a. preparing for climate change (AGR VI )	2009
	16	Canopy management (AGR VIII)	
	17	Yield maximization (AGR IV)	
	18	Organic cotton (XI)	
	19	Preparing for climate change: waterlogging studies in cotton	2009
	20	Long term study on phosphorus application on cotton G.Cot. Hy.-10	5009
	21	To study the response of applied phosphorus at different levels of native phosphorus on yield and uptake of phosphorus by cotton G.Cot.Hy-10	5009
Dr. V. K. Vekariya Assistant Research Scientist (Biochem)	1	Proj. Phy.1: Management of square shedding in cotton	2009
	2	Proj. Phy-2 Drone based application of nutrients in cotton	2009
	3	Proj.phy-3 Recording of physiological parameters in agronomic trial of a.preparing for climate change (AGR VI ) b. Canopy management (AGR VIII) c. Yield maximization (AGR IV) d. Organic cotton (XI)	2009
			2009
			2009
			2009
	4	Proj.phy-4 Preparing for climate change: waterlogging studies in cotton	2009
	5	Pro. BC-1A Screening of Cotton genotypes for drought tolerance	2009
	6	Pro. BC-1B Estimation of seed oil, gossypol and protein	2009
	7	Pro. BC-2A Bio Chem.2A : Analysis of Biochemical constituent of management of square shedding in cotton (PHY-1)	2009
	8	Pro. BC-2B Bio Chem.2B : Analysis of Biochemical constituent Drone-based (PHY-2)	2009
	9	Pro. BC-2C Bio Chem. 2C: Analysis of Biochemical constituent of Canopy management in compact genotypes (AGRO-VIII)	2009
10	Pro. BC-2D Bio Chem.2D : Analysis of Biochemical constituent of Preparing for climate change (Agronomy-VI)	2009	
11	Pro. BC-2E Bio Chem.2E : Analysis of Biochemical constituent of defoliant experiment (AGR-X)	2009	
12	Pro. BC-3 Effect of Phyto-hormone spray on yield and quality of cotton	2009	

	13	State BC 1 Effect of storage condition and packaging on seed germination of different cotton species (17. 2.20)	12009
	14	State BC 2 19.2.9:Effect of different defoliant on HDPS cotton	12009
	15	State BC 3 Screening of cotton genotype for salinity tolerant (19.2.10)	12009
	16	State BC 3 Metabolic profiling of damaged and healthy petal tissue of the infested cotton flower by pink bollworm ( <i>Pectinophora gossypiella</i> ) (20.6.3.19)	12009
	17	Long term study on phosphorus application on cotton G.Cot. Hy.-10	5009
	18	To study the response of applied phosphorus at different levels of native phosphorus on yield and uptake of phosphorus by cotton G.Cot.Hy-10	5009
Dr. H. R. Desai Associate Research Scientist (Ento.) Entomology Section	1	Advanced Evaluation Trial-II of Intra-hirsutum Hybrids Rainfed under unprotected condition	2009-04
	2	Initial Evaluation Trial of Hirsutum Varieties - Rainfed under unprotected condition	2009-04
	3	Advanced Evaluation Trial-I of Compact Hirsutum Varieties - Rainfed under unprotected condition	2009-04
	4	Population dynamics of key pests of cotton in relation to climatic condition and Surveillance of lepidopterous pests through sex pheromones	12009
	5	Assessment of losses due to bollworms in intra-hirsutum non-Bt and Bt hybrid seed production	12009
	6	Evaluate insect resistance (pink bollworm resistance) in cotton hybrids carrying selected transgenic event Sponsored by Bioseed Research India, Hyderabad	18279
	7	Insecticide Resistance Management (IRM): Dissemination of Pink bollworm management strategies	02111
	8	Monitoring toxicity of insecticides against pink bollworm populations of cotton	12014
Dr. G. R. Bhandari, Assist. Res. Sci. (Ento.) Entomology Section	1	Advanced Evaluation Trial-I of Intra-hirsutum Hybrids Rainfed under unprotected condition	2009-04
	2	Advance Evaluation Trial-I of Compact Intra-Hirsutum Hybrids-Rainfed under unprotected condition	2009-04
	3	Initial Evaluation Trial of Compact Hirsutum Varieties-Rainfed under unprotected condition	2009-04
	4	Eco-friendly management of sucking pests infesting <i>Bt</i> cotton	12014
	5	Long term studies on phosphorus application on incidence of pests of cotton	5009
	6	Investigation on hybrid cotton crosses resistance to leafhopper, <i>Amarasca bigutulla bigutulla</i> (Ishida)	12014
Dr. R. D. Patel, Assist. Res.Sci. (Ento.) Entomology Section	1	Screening of breeding material for resistance to insect pests (ZT & NT)	2009
	2	Advance screening of promising entries for development of repository for sucking pests	2009
	3	Evaluation of promising entries from Ent. (1b) for creation of repository for sucking pests tolerant genotypes	2009
	4	Seasonal dynamics to develop suitable forecasting model	2009
	5	Survey for key and emerging pests in cotton in farmers fields for weekly advisory	2009
	6	Evaluation of persistence of insecticides against pink bollworm	2009
	7	Evaluation of persistence of insecticides against insect pests of cotton (Conventional and drone application)	2009
	8	Evaluation of botanical and biopesticides for cotton insect pest management	2009
	9	To validate IPM module based on existing interventions for organic cotton production (Agronomy plot)	2009
	10	Revisiting ETL for thrips population in cotton	2009
	11	Impact of Agronomic intervention on insect pest dynamics under HDPS	2009
	12	Initial Evaluation Trial of Intra-Hirsutum Hybrids – Rainfed under unprotected condition	2009-04

	13	Initial Evaluation Trial of Compact Intra-Hirsutum Hybrids-Rainfed under unprotected condition	2009-04
	14	Advanced Evaluation Trial- II of Hirsutum Varieties -Rainfed under unprotected condition	2009-04
	15	Screening of cotton materials included in breeding trials against insect pests of cotton	12009
	16	Efficacy of ready-mix insecticides against sucking pests of <i>Bt</i> cotton	5009
	17	Management of pink bollworm, <i>Pectinophora gossypiella</i> (Saunders) in <i>Bt</i> cotton	12014
Dr. P.B.Sandipan, Assist. Res. Sci. (Patho) Pathology Section	1	A. Observations on the occurrence of the diseases (in farmer's field and research farm)	2009
	2	B. Weekly (Weekly Advisory) and Fortnightly (Fortnightly Advisory) observation report on the incidence of diseases at Farmers's field	2009
	3	Disease progress in relation to weather factors	2009
	4	Studies on variability of <i>Alternaria/ Corynespora</i> leaf spot	2009
	5	Screening of breeding lines for disease reaction (National and Zonal entries)	2009
	6	Confirmation and maintenance of disease resistant lines	2009
	7	Screening of varieties/breeding materials for resistance to different diseases	5009
Dr. Preeti R. Parmar Assist. Res. Sci. (Microbiology) Biotechnology Section	1	Study on bacterial decomposition of cotton stalk in the soil and its effect on cotton seedling growth (PI)	12009
	2	Study of multifunctional character of endophytic bacteria isolated from wild cotton plant (PI)	12009
		<i>In-vitro</i> study on seed biopriming with wild cotton endophytic bacteria and its effect on morphometric and biochemical profile of cotton seedling under salinity stress (PI)	12009
		Biochemical and molecular characterization of <i>CryI Ac</i> genotype of cotton (Co-PI)	12014

## (૨) બીટી કપાસની આધુનિક ખેતી પદ્ધતિ

વર્ષ ૨૦૨૫-૨૬માં કપાસ પકવતા ખેડુતો માટે ફોલ્ડર પ્રસિધ્ધ કરેલ છે.



### કપાસમાં ગુલાબી ઈયળનાં કુંદાઓનું સમાગમ વિક્ષેપન પદ્ધતિની તાંત્રિકતાથી વ્યવસ્થાપન



ડૉ. આર. ડી. પટેલ, અમિષા આર. ઉઘરેજા, મયુર એમ. ચૌહાણ  
ડૉ. એચ. આર. દેસાઈ, ડૉ. જી. આર. ભંડેરી અને ડૉ. એમ. સી. પટેલ

મુખ્ય કપાસ સંશોધન કેન્દ્ર  
નવસારી કૃષિ યુનિવર્સિટી, અઠવા ફાર્મ, સુરત-૩૯૫૦૦૭

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યુનિવર્સિટી પ્રકાશન નં. NAU/૦૩/૧૩/૦૮૩/૨૦૨૫ વર્ષ : ૨૦૨૫-૨૬



Funded under Centrally Sponsored Scheme NFSM: CC: Cotton:  
Insecticide Resistance Management (IRM): "Dissemination of Pink Bollworm Management Strategies"

### (૩) કપાસ ઉત્પાદન માટેનાં ચાવીરૂપ મુદ્દાઓ (Good Agricultural Practices)

- સારા નિતારવાળી મધ્યમ કાળીથી ગોરાડુ જમીનની પસંદગી કરવી.
- વરસાદ પહેલાં વાવેતર માટે જમીન તૈયાર કરવી અને અંકાંતરે વર્ષે ઉનાળામાં ઉડી ખેડ કરવી.
- વધુ વરસાદનાં કારણે ખેતરમાં પાણી ભરાઈ રહેતું હોય તો પાળા પર વાવણી કરવા માટે પાણી બનાવવી.
- સાડુ કોહવાયેલું છાણિયું ખાતર કે કંપોસ્ટ ૧૦ ટન/ હેક્ટર મુજબ જમીનમાં ભેળવવું અથવા શક્ય હોય તો શણ કે ઈકડનો લીલો પડવાશ કરવો.
- કપાસનું થાણીને વાવેતર કરવું જે માટે હેક્ટરે ૧.૫ થી ૨.૦ કિલો બિયારણની જરૂર પડે છે.

#### પિયત બીટી કપાસ

- ગુજરાત કપાસ સંકર-૬ (બીજી-૨), ગુજરાત કપાસ સંકર-૮ (બીજી-૨), ગુજરાત કપાસ સંકર-૧૦ (બીજી-૨), ગુજરાત કપાસ સંકર-૧૨ (બીજી-૨) અથવા સરકારશ્રીદ્રારામાન્ય થયેલ બીટી જાતની પસંદગી કરવી.
- મે મહીનાના બીજા પખવાડીયામાં આગોતરૂ વાવેતર કરવું, સંરક્ષણ પટ્ટી રૂપે બીટી કપાસનાં પેકેટ સાથે આપેલ નોન બીટી કપાસ/ તુવેરનું ખેતરની ફરતે બે હારમાં વાવેતર કરવું.
- બે હાર વચ્ચે ૬૨૦ સેમી અને બે છોડ વચ્ચે ૪૫ સેમી અંતર રાખી થાણીને વાવેતર કરવું.
- જરૂરીયાત મુજબ બે થી ત્રણ વખત નિંદામણ અને આંતર ખેડ કરવી.
- નિંદામણ નિયંત્રણ માટે ઉગ્યા પહેલા પેન્ડીમીથાલીન ૩૦ ઈસી દવા ૩ લી./ હેક્ટરને ૬૦૦ લી. પાણીમાં ભેળવીને છંટકાવ કરવો ત્યાર બાદ ૩૦ દિવસે આંતર ખેડ અને ૩૦ અને ૬૦ દિવસે હાથથી નિંદામણ કરવું અથવા વાવણી બાદ ૧૫ થી ૨૦ દિવસે ક્વિઝાલોફોપ પી ઈથાઈલ ૫ ઈસી ૧ લી./ હે ને પાણીમાં ભેળવીને છંટકાવ કરવો અને એક વખત આંતર ખેડ અને હાથથી નિંદામણ કરવું.
- ૨૪૦-૪૦-૦૦ ના-ફો-પો કિલો/ હે. મુજબ રાસાયણિક ખાતર આપવું. નાઈટ્રોજનનો કુલ જથ્થો વાવણી પછી ૩૦, ૬૦, ૭૫, ૯૦ અને ૧૦૫ દિવસે સરખા હપ્તામાં આપવો. ઉપરાંત, ૩% પોટેશિયમ નાઈટ્રેટનો ફુલમભરી અવસ્થાએ, જીડવા બેસવાની શરૂઆત થાય ત્યાર પછી ૧૫-૨૦ દિવસે છંટકાવ કરવો.
- ૧૦ લીટર પાણીમાં ૧.૧૨૫ મીલી ૩૯% ધરાવતી પ્રોડક્ટ (૪૫ પીપીએમ) પ્રમાણ રાખી ઈથિલીનના દ્રાવણનો ભમરી બેસવાની અવસ્થાએ એટલે કે ૩૫-૪૦ દિવસે છંટકાવ કરવો.
- વાવણી પછી ૯૫ દિવસે છોડની ડુંબ તોડી અને ૧૦૫ દિવસે ફળાઉ ડાળીઓની ટોચ છોડા પરથી કાપવાથી ઉત્પાદનમાં ફાયદો થાય છે.
- વરસાદ બંધ થયા પછી ભારે કાળી જમીનમાં ૨૦-૨૫ અને ગોરાડુ જમીનમાં ૧૫-૨૦ દિવસના આંતરે પિયત આપવું. પિયત એકાંતરે પાટલે આપવાથી અંદાજે ૩૦% પાણીનો બચાવ થાય છે. શક્ય હોય તો ટપક પિયત પદ્ધતિનો ઉપયોગ કરવો.
- કપાસમાં આવતો સુકારો (પેરા વિલ્ટ) અટકાવવા માટે હલ્કી જમીનમાં જીડવાના વિકાસની અવસ્થાએ જમીનમાં ભેજ જાળવી રાખવો.
- જમીનમાં પાણી ભરાઈ રહે તો તાત્કાલિકનિકાલ કરવો તથા મૂળ વિસ્તારમાં હવાની અવર-જવર વધે તે માટે લોખંડના સળીયાથી થડની આજુબાજુ કાણા કરવા અને ૨% યુરીયાનું દ્રાવણ આપવું.
- કપાસમાં પાન લાલ થતા અટકાવવા ફુલ આવવાની અવસ્થાએ ૨% ડી એ પી ના દ્રાવણનો છંટકાવ કરવો તથા ફુલ આવવાની અવસ્થાથી જીડવા વિકાસની અવસ્થા દરમ્યાન ૧% યુરીયા તથા ૧% મેગ્નેશિયમ સલ્ફેટનું દ્રાવણ છાંટવું અથવા વાવણી બાદ ૩૦, ૬૦ અને ૯૦ દિવસે ૦.૫% યુરીયા, ૦.૫% ઝીંક સલ્ફેટ, ૦.૫%, ૦.૫% ફેરસ સલ્ફેટ અને ૦.૫% મેગ્નેશિયમ સલ્ફેટના દ્રાવણનો છંટકાવ કરવો.
- યુસીયા પ્રકારની જીવાતોના નિયંત્રણ માટે ઈમીડાકલોપ્રીડ ૨૦૦ એસએલ ૨૦ ગ્રામ સક્રીય તત્વ અથવા એસીટામીપ્રીડ ૨૦ એસપી ૬૦ ગ્રામ સક્રીય તત્વ અથવા થાયોમિથોકઝામ ૨૫ ડબલ્યુજી ૨૫ ગ્રામ સક્રીય તત્વ પ્રતિ હેક્ટરનો છંટકાવ કરવો.
- મીલી બગનાં આગોતરા નિયંત્રણ માટે શેઠા પાળા સાફ રાખવા અને ખાસ કરીને નિંદામણો જેવાં કે, જંગલી ભીંડા, ગોખરું, કાંસકી વિગેરે મીલીબગનાં યજમાન નિંદામણ પાકો હોય તેનો નિકાલ કરવો.
- વરસાદ બાદ મીલીબગનાં ઉપદ્રવની નિયમિત મોજણી કરવી અને વધુ ઉપદ્રવ જણાય તો એસીટામીપ્રીડ ૨૦ એસ પી (૨ગ્રામ) અથવા ઈમીડાકલોપ્રીડ ૧૭ ડબલ્યુજી (૧ ગ્રામ) અથવા પ્રોફેનોફોસ ૫૦ ઈસી (૨૦ મીલી) ૧૦ પાણીમાં ભેળવીને ઉપદ્રવિત છોડો અને તેની ફરતેનાં છોડોમાં મર્યાદિત ઉપયોગ કરવો.

- ગુલાબી ઈયળની મોજણી માટે એક હેક્ટરે ૫ ફેરોમોન ટ્રેપ લગાડવા. ઉપદ્રવિત ફુલોનો (ઈયળ સહિત) અને ખરી પડેલ અવશેષોનો નાશ કરવો. ફેરોમોન ટ્રેપમાં સતત ત્રણ રાત્રી સુધી સરેરાશ આઠ નર ફુદા પકડાય તો ગુલાબી ઈયળનાં નિયંત્રણ માટે ખેતરમાં પાક અવસ્થા મુજબ ભલામણ કરેલ દવાનો વપરાશ કરવો.

### બિનપિયત બીટી કપાસ

- ગુજરાત કપાસ સંકર-૮ (બીજી-૨) અને ગુજરાત કપાસ સંકર-૧૨(બીજી-૨) અથવા સરકારશ્રીદ્રારામાન્ય થયેલી વહેલી પાકતી જાતની પસંદગી કરવી.
- વાવણી લાયક વરસાદ થયે જુન મહીનાના બીજા થી ત્રીજા અઠવાડિયા દરમ્યાન વાવેતર કરવું.
- બે હાર વચ્ચે ૧૨૦ સેમી અને બે છોડ વચ્ચે ૪૫ સેમી અંતર રાખી થાણીને વાવેતર કરવું.
- કપાસનું થાણીને વાવેતર કરવું જે માટે હેક્ટરે ૧.૫ થી ૨.૦ કિલો બિયારણની જરૂર પડે છે.
- જરૂરીયાત મુજબ બે થી ત્રણ વખત નિંદામણ નિયંત્રણ અને આંતર ખેડ ચાલુ રાખવી જોઈએ.
- નિંદામણ નિયંત્રણ માટે પાક ઉગ્યા પહેલા પેન્ડીમીથાલીન ૩૦ ઈસી દવા ૩ લી./ હેક્ટરને ૬૦૦ લી. પાણીમાં ભેળવીને છંટકાવ કરવો ત્યારબાદ ૩૦ દિવસે આંતર ખેડ અને ૩૦ અને ૬૦ દિવસે હાથથી નિંદામણ કરવું અથવા વાવણી બાદ ૧૫ થી ૨૦ દિવસે કિવઝાલોફોપ પી ઈથાઈલ ૫ ઈસી ૧ લી/ હે. ને પાણીમાં ભેળવીને છંટકાવ કરવો અને એક વખત આંતર ખેડ અને હાથથી નિંદામણ કરવું.
- ઉત્તર ગુજરાતમાં ૮૦ નાઈટ્રોજન કિલો/હે. તથા બાકીના વિસ્તારમાં ૧૨૦-૦૦-૦૦ નાઈટ્રોજન કિલો/હે. મુજબ રાસાયણિક ખાતર આપવું. નાઈટ્રોજનનો કુલ જથ્થો વાવણી પછી ૩૦ અને ૬૦ દિવસે બે સરખા હપ્તામાં આપવો. ઉપરાંત ૩% પોટેશિયમ નાઈટ્રેટનો ફુલભમરી અવસ્થાએ, જીંડવા બેસવાની શરૂઆત થાય ત્યારે અને ત્યાર પછી ૧૫-૨૦ દિવસે છંટકાવ કરવો.
- ૧૦ લીટર પાણીમાં ૧.૧૨૫ મીલી ૩૯% ધરાવતી પ્રોડક્ટ (૪૫ પીપીએમ) પ્રમાણ રાખી ઈથિલીનનાં દ્રાવણનો ભમરી બેસવાની અવસ્થાએ એટલે કે ૩૫-૪૦ દિવસે છંટકાવ કરવો.
- કપાસમાં આવતો સુકારો (પેરા વિલ્ટ) અટકાવવા માટે હલ્કી જમીનમાં જીંડવાના વિકાસની અવસ્થાએ જમીનમાં ભેજ જાળવી રાખવો. તે માટે મલ્ચીંગ કરવું.
- વધુ વરસાદના કારણે જમીનમાં પાણી ભરાઈ રહે તો તાત્કાલિકનિકાલ કરવો તથા મૂળ વિસ્તારમાં હવાની અવર-જવર વધે તે માટે લોખંડના સળીયાથી થડની આજુબાજુ કાણા કરવા અને ૨% યુરીયાના દ્રાવણનું ડ્રેયિંગ કરવું.
- કપાસમાં પાન લાલ થતા અટકાવવા ફુલ આવવાની અવસ્થાએ ૨% ડી એ પીના દ્રાવણનો છંટકાવ કરવો તથા ફુલ આવવાની અવસ્થાથી જીંડવા વિકાસની અવસ્થા દરમ્યાન ૧% યુરીયા તથા ૧% મેગ્નેશીયમ સલ્ફેટનું દ્રાવણ છાંટવું અથવા વાવણી બાદ ૩૦, ૬૦ અને ૯૦ દિવસે ૦.૫% યુરીયા, ૦.૫% ઝીંક સલ્ફેટ, ૦.૫% ફેરસ સલ્ફેટ અને ૦.૫% મેગ્નેશીયમ દ્રાવણનો છંટકાવ કરવો.
- યુસિયા પ્રકારની જીવાતોના નિયંત્રણ માટે ઈમીડાકલોપ્રીડ ૨૦૦ એસએલ ૨૦ ગ્રામ સક્રીય તત્વ અથવા એસીટામીપ્રીડ ૨૦ એસપી ૧૦ ગ્રામ સક્રીય તત્વ અથવા થાયોમિથોકઝામ ૨૫ ડબલ્યુજી ૨૫ ગ્રામ સક્રીય તત્વ પ્રતિ હેક્ટરનો છંટકાવ કરવો.
- મીલીબગનાં આગોતરા નિયંત્રણ માટે શેઠાપાળા સાફ કરવા તથા વધુ ઉપદ્રવ જણાય તો શોષક પ્રકારની કિટનાશકો જેવી કે, એસીટામીપ્રીડ ૨૦ એસપી (૨ગ્રામ) અથવા ઈમીડાકલોપ્રીડ ૭૦ ડબલ્યુજી (૧ ગ્રામ) પૈકી કોઈપણ એક દવાનો ૧૦ લી. પાણીમાં ભેળવી છંટકાવ કરવો.
- ગુલાબી ઈયળનાં ઉપદ્રવની જાણકારી મેળવવા નર ફુદીને આકર્ષતા ફેરોમોન ટ્રેપ હેક્ટરે ૫ ની સંખ્યામાં ગોઠવવા. તાજેતરનાં સંશોધન મુજબ બીટી કપાસની ખેતીમાં ગુલાબી ઈયળનાં નિયંત્રણ માટે ઈન્ડોકઝાકાર્બ ૧૫.૮ ઈસી ૫ મીલી/૧૦ લી. પાણી અથવા એમામેક્ટીન બેન્ઝોએટ ૫ એસજી ૫ ગ્રામ/૧૦ લી. અથવા સ્પીનોસેડ ૪૫ એસસી ૩ મીલી/૧૦ લી. પાણી કીટકનાશકના બે છંટકાવ કે જેમાં પ્રથમ છંટકાવ કપાસની વાવણી બાદ ૭૫ દિવસે અને ત્યારબાદ ૧૫ દિવસે બીજો છંટકાવ કરવાની ભલામણ છે.

**આંતર પાક :** કપાસનું વાવેતર પહોળા પાટલે કરવામાં આવતું હોવાથી બે ચાસ વચ્ચે વધુ જગ્યા રહે છે જેના લીધે નિંદામણનો ઉપદ્રવ વધુ રહે છે અને શરૂઆતમાં કપાસનો વિકાસ પણ ધીમો હોય છે. વહેલાં પાકતા અને કપાસનાં છોડ સાથે હરિફાઈ ન કરતાં આંતર પાકો જેવાં કે, અડધ, મગ, સોયાબીન, તલ, મગફળી જેવાં પાકોની કપાસની બે હાર વચ્ચે વાવણી અને કાળજીથી ઉત્પાદન મેળવી વધુ નફો મેળવી શકાય છે.

## (૪) કપાસ પાકની સેન્દ્રિય ખેતી પદ્ધતિ

### જમીનની પસંદગી :

સારા નીતારવાળી, મધ્યમ કાળી, બેસર, ગોરાડુ તથા સાધારણ રેતાળ જમીન વધુ અનુકૂળ આવે છે. કાળી જમીનમાં પણ કપાસ સારુ ઉત્પાદન આપે છે.

### જમીનની તૈયારી:

પિયતની સગવડ હોય તો ઉનાળામાં શણ કે ઈકકડનો લીલો પડવાશ કરેલ હોય તો જમીનમાં ભેળવી દેવો તથા ચોમાસુ જ્યારે સામાન્ય હોય ત્યારે જમીનમાં ભેજ સંગ્રહ થાય તે માટે એક થી બે વાર ખેડ કરવી જરૂરી છે. એક-બે વર્ષના અંતરે હળ કે ટ્રેક્ટરથી ઉડી ખેડ કરવાથી બહુવર્ષાયુ નિંદામણનો નાશ થાય તેમજ જમીનમાં રહેલા જીવાતોના કોશેટા પણ નાશ પામે છે. જે ખેતરમાં પાણી ભરાઈ રહેતું હોય ત્યાં ઢાળીયા-પાળી બનાવી જમીન તૈયાર કરવી.

### વાવણી સમય:

- વરસાદ શરૂ થયા પછી એટલે કે જૂન મહિનાના બીજા થી ત્રીજા અઠવાડિયામાં
- જ્યાં પિયતની સગવડ હોય ત્યાં મે મહિનાના બીજા પખવાડિયામાં આગોતરૂ વાવેતર કરવું.

### બિયારણનો દર અને અંતર :

- પિયત વિસ્તારમાં ૧૨૦ × ૪૫ સેમી તથા બીન પિયત વિસ્તારમાં ૮૦ × ૩૦ સેમી તથા વાગડ વિસ્તારમાં ૨૧૦ × ૩૦ સેમીનું અંતર રાખી હેક્ટર દીઠ ૧૦ થી ૧૨ કિલો બિયારણનો દર રાખી જમીનમાં ભેજની ઉપલબ્ધતા મુજબ ૪-૬ સેમી ઉડાઈએ વાવેતર કરવું.

### જાતની પસંદગી : પિયતની સગવડતાના આધારે જાતોની પસંદગી

પિયતની સગવડ હોય ત્યાં	ગુ. કપાસ-૧૦ તથા ગુ. કપાસ-૨૦, ગુ.(ન)કપાસ-૨૨
આંશિક પિયત હોય ત્યાં	ગુ.કપાસ-૧૦, ગુ. કપાસ-૨૦ તથા ભરૂચ વિસ્તારમાં ગુ.કપાસ-૧૬ અને જુનાગઢ વિસ્તારમાં ગુ.કપાસ-૧૮
વરસાદ આધારીત ખેતી માટે	ગુ. કપાસ-૧૦, ૧૬, ૧૭ (ભરૂચવિસ્તાર) ગુ.કપાસ-૧૨, ૨૧, ૨૫ અને આણંદ દેશી કપાસ-૧ (વાગડ વિસ્તાર)

### બીજ માવજત:

- જમીનમાં નાઈટ્રોજનના સ્થિરીકરણ માટે એક કિલોગ્રામ બિયારણ દીઠ ૩૦ ગ્રામ એઝોટોબેક્ટર કલ્ચરનો પટ આપવો.
- જીવાણુથી થતા બીજ જેવીક નિયંત્રણ માટે સ્યુડોમોનાસ ફલ્યુરોસેન્સ સ્ટ્રેઈન-૧ નો ૧૦ ગ્રામ/૧ કી.ગ્રા. બીજમાં પટ આપવો અને ૨૦ ગ્રામ/ ૧૦ લી. પાણીમાં (૦.૨%) મિશ્રણ કરી ૩૦ દિવસના અંતરે ૩ વખત છંટકાવ કરવો.
- સુકારાની સમસ્યા માટે ટ્રાઈકોડરમાં વીરીડી @ ૫ ગ્રામ પર પ્રતિ કિલો બીજ પ્રમાણે બીજ માવજત તેમજ ટ્રાઈકોડરમાં વીરીડી @ ૨.૫ કિ ગ્રામ પ્રતિ હેક્ટરે ૧૦૦ કિ ગ્રામ છાણીયા ખાતર સાથે વાવણી સમયે આપવું.

### ખાતરો:

- પિયત વિસ્તાર માટે હેક્ટર દીઠ ૨૦ ટન તથા બીન પિયત વિસ્તાર માટે ૧૦ ટન છાણિયુ ખાતર અથવા કમ્પોસ્ટ અથવા ૨ ટન દિવેલીનો ખોળ નાખવો
- હેક્ટર દીઠ ૨ કિલો ગ્રામ એઝોટોબેક્ટરને ૧૦૦ કિલો છાણિયા ખાતરમાં એનરીય કરી જમીનમાં નાખવું

### પિયત:

- છેલ્લા અસરકારક વરસાદ બાદ કાળી જમીનમાં ૨૦ થી ૨૫ દિવસના અંતરે તથા ગોરાડું જમીન માટે ૧૫ દિવસના અંતરે પિયત આપવું.
- પિયત પાણીની અછત હોય તો એકાંતરે ચાસે પાણી આપવું.

### આંતર ખેડ અને નિંદણ નિયંત્રણ :

- કપાસનું વધુ ઉત્પાદન લેવા માટે તેની શરૂઆતની વૃદ્ધિના ૫૦ થી ૬૦ દિવસના ગાળામાં પાકને નિંદણથી મુક્ત રાખવો આવશ્યક છે. કપાસના પાકમાં જરૂરીયાત મુજબ આંતર ખેડ તેમજ નિંદામણ કરતા રહેવું અને ખેતર ચોખ્ખું રાખવું.
- ખેતરને ૬૦ દિવસ સુધી નિંદામણ મુક્ત રાખવું.

### આંતરપાક અને દ્વિપાક પદ્ધતિ:

- વરસાદ આધારીત ખેતીમાં કપાસ સાથે મગફળી, અડદ, સોયાબીન અથવા મગ આંતર પાક તરીકે અને વરસાદ આધારીત દેશી કપાસની બે હાર વચ્ચે ૧૨૦ સે.મી. અંતર રાખી અડદની બે હાર વાવવાથી આર્થિક રીતે ફાયદાકારક રહેશે. સોયાબીન (ગુજરાત સોયાબીન-૨) અથવા અડદ (ઝંડેવાલ) અથવા મગ (ગુજરાતમગ-૨) પણ આંતરપાક તરીકે લઈ શકાય.

### જીવાત નિયંત્રણ

- પ્રતિકારક જાતોની પસંદગી કરવી. લીમડાનો ખોળ (૨૫૦ કિલો/હે.) વાપરવાથી જીવાતોનો ઉપદ્રવ ઓછો રહે છે.
- કુદરતી સંરક્ષક પાકો તરીકે મકાઈ કે જુવારની છાંટ નાખી દાળિયાં અને લીલી પોપટી જેવા સંરક્ષકોની જાળવણી કરવી. દિવેલા પાકનો લશ્કરી ઈયળનાં પીંજર પાક તરીકે, હજારીમલ ગલગોટાનું લીલી ઈયળના પીંજર પાક તરીકે વાવેતર કરી શકાય. ખેતરમાં પક્ષીઓને બેસવા લાકડાનાં ટેકા મુકવા.
- શેઠાપાળા ઉપરનાં ગાડર/ કાંસકી/ જંગલી ભીંડા/ કોગ્રેસ ઘાસ વિગેરે પ્રકારનાં નિંદામણોનો નાશ કરવો. ખરી પડેલ પાનોનો નિકાલ કરવો. સમૂહમાં કીટકને વીણીને, ઈંડાના સમૂહ/ પ્રથમ અવસ્થાની લશ્કરી ઈયળોનો સમૂહ તેમજ મીલીબગ અથવા કાબરી ઈયળથી ઉપદ્રવિત ડુંખ તોડીને બાળીને નાશ કરવો.
- પીળાં ચીકણાં ટ્રેપ (૨૦/ હે.) લગાડવાથી પુખ્ત સફેદ માખી અને શ્રીપ્સનાં ઉપદ્રવ ઘટાડી શકાય તેમજ પુખ્ત પાંખવાળા મોલોની પાકમાં શરૂઆત અને સ્થાળાંતરની જાણકારી મેળવી. જીંડવા કોરી ખાનાર ઈયળોનો મોજણી માટે ફેરોમોન ટ્રેપ હેક્ટર દીઠ પાંચ પ્રમાણે લગાડવા અને પિંજરમાં આવતા નર ફુદાંઓની સંખ્યા રોજ તપાસતા રહેવું. નર ફુદાંઓની સંખ્યા વધતી જોવા મળે ખેતરમાં નુકશાનની તપાસ/ મોજણી કરવી.
- જૈવિકનિયંત્રણ માટે લીલી પોપટીના હેક્ટર દીઠ દસ હજાર ઈંડા અથવા ઈયળને બે-ત્રણ વખત છોડવા. (નવસારી કૃષિ યુનિવર્સિટી, નવસારીની જૈવિક પ્રયોગશાળામાં અગાઉથી જાણ કરી મેળવી શકાય.) ફેરોમોન ટ્રેપમાં સરેરાશ પાંચ નર ફુદાં પકડાવાની શરૂઆત થયાના પાંચ દિવસ બાદ પાંચ થી સાત વખત ઈંડાની પરજીવી ભમરી, ટ્રાયકોગ્રામેટોઈડી બેક્ટરી % અથવા ટ્રાયકોગ્રામા સ્પી. ૧ થી ૧.૫ લાખ (પરજીવીકરણ પામેલ ઈંડાના ટ્રાયકોકાર્ડ) જેટલા પાન ઉપર નીચેની બાજુએ સ્ટેપ્લરની મદદથી ચોંટાડી જૈવિક નિયંત્રણ માટે વાપરી શકાય.
- સલામત લીમડા આધારિત (એઝાડીરેક્ટીંગ ૦.૧૫%— લીબોડીના મીંજ આધારીત ઈસી) ૫ થી ૧૦ મીલી/ લિ. મુજબ અથવા કપાસના વાવેતરના ૩૦ દિવસ બાદ મીલીબગના ઉપદ્રવ શરૂ થયે લીબોળીનું તેલ ૩૦-૫૦ મી.લી. + ૧૦ ગ્રામ અરીઠા પાવડર પાવડર પ્રતિ ૧૦ લીટર પાણીમાં ભેળવી ૮-૧૦ દિવસના અંતરે જરૂરીયાત મુજબ ૨-૩ છંટકાવ કરવા.
- સુક્ષ્મ જૈવિકનિયંત્રકો જેવા કે વર્ટીસીલીયમ લેકેનાઈ, બ્રેવરીયા બાસીયાના, મેટારાઈઝમ એનોસોપલી નામની ૫ ગ્રા. અથવા મી.લી./ લિ. મુજબ પાકની શરૂઆતની અવસ્થાએ વાતાવરણમાં ભેજ જળવાય ત્યારે છંટકાવ કરી શકાય. લીલી ઈયળ માટે વિષાણુયુક્ત જૈવિક પ્રવાહી HNPV @ 450 LE પ્રતિ હેક્ટરે સાંજના સમયે છંટકાવ કરવો. લશ્કરી ઈયળ માટે વિષાણુયુક્ત જૈવિક પ્રવાહી SNPV @ 250 LE પ્રતિ હેક્ટરે સાંજના સમયે છંટકાવ કરવો.
- ગૌમુત્ર/ છાણ આધારીત જીવામૃત અથવા નફફટીયા, આંકડા, લસણના પાનોનો અર્કનું દ્રાવણ પણ છંટકાવ કરી શકાય.



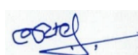
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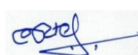
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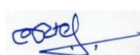
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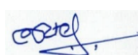
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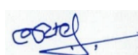
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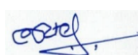
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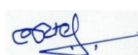
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## 2020-21 (International Conference/Symposium/Seminar)

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- Participated in Online Workshop on “HPTLC Technique and its Applications in Agriculture” organized by Department of Plant Molecular Biology and Biotechnology, ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari on 3rd November, 2020 through online mode
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### **2021-22 (International Conference/Symposium/Seminar)**

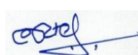
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### **2022-23 (International Conference/Symposium/Seminar)**

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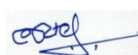
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- Bhanderi, G. R., Patel, R. D., Desai, H. R. and Patel, M. C. (2023). Evaluation of insecticides against sucking pests in Bt cotton. In: 9<sup>th</sup> Asian Cotton Research and Development Network (ACRDN) Meeting & International conference organized by ISCI Mumbai, ICAC Washington DC USA, ICAR-CIRCOT Mumbai, ICAR-CICR Nagpur and IFS, Mumbai during December 06-08<sup>th</sup>, 2023 at ICAR-CIRCOT, Mumbai. p. 24 (Theme 3).
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- Rajkumar B. K., SherasiyaJainulabedinMaheebub and Preeti R Parmar (2023). Antifungal and plant growth promoting characters of siderophore producing bacteria in three days International conference on “Impact of climate change on global food, livestock, livelihood and environmental security : Advanced approaches and mitigation strategies” organized by N. M. College of Agriculture, Navsari Agricultural University, Navsari during December 28-30, 2023.
- Prashant B. Sandipan<sup>1</sup>, P. S. Patel<sup>2</sup>, R. K. Patel<sup>3</sup>, and M. C. Patel<sup>4</sup> 2023. Assessment of different fungicides against boll rot and foliar disease of cotton under South Gujarat of India. Abstract presented on the occasion of 3 Days International Conference on “Impact of Climate Changes on Global Food, Livestock, Livelihood and Environmental Security: Advanced Approaches and Mitigation Strategies” (ICCGFLLES-2023) on 28-30 December, 2023 jointly organized by NAU, Navsari, Gujarat and NADCL, Baramulla, UT of J&K in collaboration with ICAR-NAHEP, Centre for Advanced Agricultural Science & Technology (CAAST), NAU, Navsari held at Mainmpus, Navsari Agricultural University, Navsari, Gujarat. P.24.
- Prashant B. Sandipan<sup>1</sup>, P. S. Patel<sup>2</sup>, R. K. Patel<sup>3</sup>, and M. C. Patel<sup>4</sup> 2023. Role of Bacterial leaf blight (BLB) disease in relation to environmental factors under South Gujarat of India. Abstract presented on the occasion of 3 Days International Conference on “Impact of Climate Changes on Global Food, Livestock, Livelihood and Environmental Security: Advanced Approaches and Mitigation Strategies” (ICCGFLLES-2023) on 28-30 December, 2023 jointly organized by NAU, Navsari, Gujarat and NADCL, Baramulla, UT of J&K in collaboration with ICAR-NAHEP, Centre for Advanced Agricultural Science & Technology (CAAST), NAU, Navsari held at Main Campus, Navsari Agricultural University, Navsari, Gujarat. P. 25.
- Prashant B. Sandipan<sup>1</sup>, P. S. Patel<sup>2</sup>, R. K. Patel<sup>3</sup>, and M. C. Patel<sup>4</sup>2023. Prevalence and incidence of cotton diseases under South Gujarat. Abstract presented on the occasion of 3 Days International Conference on “Impact of Climate Changes on Global Food, Livestock, Livelihood and Environmental Security: Advanced Approaches and Mitigation Strategies” (ICCGFLLES-2023) on 28-30 December, 2023 jointly organized by NAU, Navsari, Gujarat and NADCL, Baramulla, UT of J&K in collaboration with ICAR-NAHEP, Centre for Advanced Agricultural Science & Technology (CAAST), NAU, Navsari held at Main Campus, Navsari Agricultural University, Navsari, Gujarat. P. 26.
- Manavadria Twinkle and P. B. Sandipan. 2023. Impact of Climate Change on Epidemiology of Fungal Diseases. Abstract presented on the occasion of 3 Days International Conference on “Impact of Climate Changes on Global Food, Livestock, Livelihood and Environmental Security: Advanced Approaches and Mitigation Strategies” (ICCGFLLES-2023) on 28-30 December, 2023 jointly organized by NAU, Navsari, Gujarat and NADCL, Baramulla, UT of J&K in collaboration with ICAR-NAHEP, Centre for Advanced Agricultural Science & Technology (CAAST), NAU, Navsari held at Main Campus, Navsari Agricultural University, Navsari, Gujarat. P. 274.

## 2024-25 (International Conference/Symposium/Seminar)

- Nagrare, V. S., Fand, B. B., Rishi Kumar, Naik, V. C. U., Gawande, S. P., Patil, S. S., Rameash, K., Nagrale, D. T., Wasnik, S. M., Nemade, P. W., Deshmukh, S. B., Magar, P. N., Patil, P. P., Bantewad, S. D., Kedar, P. B., Baheti, H. S., Desai, H. R., Patel, R. D., Varia, M. V., Parsai, S. K., Udikeri, S. S., Hugar, S. V., Patil, S. B., Sreenivas, A. G., Hanchinal, S. G., Shekhar, K. R., Durga Prasad, N.V.V.S., Shiv Rama Krishna, Annie Diana

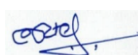


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- Sankat K. B., Patel M. M., Patel P. S. and Patel M. C. (2024). Yield maximization of Bt cotton by Integrated Crop Management Techniques in South Gujarat condition. International Conference on Innovative Technologies for Research and Development for Sustainable Production of Cotton, Oil seeds and Fibre crops organised by CRDA at EKD OLD GOA during 13-15 November, 2024. Published in Book of Oral Presentations: pp: 80-83.
- Sankat K. B., Patel M. M., Patel P. S. and Patel M. C. (2024). Yield maximization of Bt cotton by Integrated Crop Management Techniques in South Gujarat condition. International Conference on Innovative Technologies for Research and Development for Sustainable Production of Cotton, Oil seeds and Fibre crops organised by CRDA at EKD OLD GOA during 13-15 November, 2024. Published in Book of Abstract: pp: 74-75.
- Sankat K. B., Patel M. M. and Patel M. C. (2024). Weed suppression in Cotton through High Density Planting System. Abstract published in Proceedings ISWS Biennial Conference on Climate Smart Weed Management for Global Food Security organised by Indian Society of Weed Science, Banaras Hindu University, ICAR-Directorate of Weed Research and Indian Council of Agricultural Research organised at HAU, Varanasi, Uttar Pradesh during 28-30 November, 2024 (Poster 137) pp: 282. (ISBN No. 978-81-981439-4-5).
- V. K. Vekariya, H. R. Ramanni, P. R. Parmar, Rajkumar and M. M. Patel. Use of Growth Regulator and Detopping for Yield Enhancement of Cotton under HDPS. The CRDA international conference held at Goa during 13-15 Nov 2024
- Sankat K. B., Pawar S.L. and Patel M. C. (2025). Evaluation of Labour Saving Techniques in Cotton Cultivation. An Abstract published in a Souvenir of International Conference on Trailblazing Trends in Sustainable Climate-Resilient Precision Agriculture through Artificial Intelligence and Remote Sensing to be organised by Centre of Excellence on Soil and Water Management, Junagadh Agricultural University, Junagadh during 23rd to 24<sup>th</sup> January, 2025 at JAU, Junagadh. pp:88.

## 2025-26 (International Conference/Symposium/Seminar)

- Poster presented by H. R. Ramani, V. K. Vekariya, P. S. Patel and M. C. Patel on “Management of square shedding in Bt Cotton, in International conference at School of Agriculture & Technology Maya Devi University, Dehradun, 25-27 July, 2025.
- BadiMohamadaya Alimamad, Dukare Nikhil Patingrao, Rajkumar B. K., Preeti R. Parmar and KiranSuthar (2025). Genetic diversity among interspecific upland cotton (*Gossypiumhirsutum*L.) genotypes using EST-SSR markers (Feb., 2025). 8th International conference : Cuttingedge research innovation in sustainable Education, Environment and Agriculture (CRISEA – 2025) Page 100, Abstract no. 162
- V. K. Vekariya, H. R. Ramani, Rajkumar, B.K., P. R. Parmar (2025) Effect of Environment and Growth regulators on growth and yield of *Gossypium arboreum*, Poster presented in National seminar, PDKV, Akola, March, 11-12, 2025.
- Meet Dobaria, P. R. Parmar, Rajkumar B K., V. Vekariya, Daya Patel, and Deepesh Bhatt (2025) *In vitro* study of seed bio priming with plant growth promoting hal tolerant bacteria and its effect on cotton seedling under salinity stress. National conference held at Gujarat University, Ahmedabad during 4-5 April 2025
- Vekariya, V.K., Singh, D., Rajkumar, B.K., Ramani, H. R. and Faldu, G.O. (2025) Physiological and biochemical response of cotton parents and hybrids under saline environment and its characterization with micro satellite markers. National conference at Share Kashmir University of Agriculture sciences and technology of Jammu (SKUAST-J), Chatha during 6-7 March, 2025
- Prashant B. Sandipan, P. S. Patel, R. K. Patel and M. C. Patel (2025). Evaluation of different fungicides against boll rot and foliar diseases of cotton. Paper presented in National Conference on Indigenous Knowledge system for sustainable future- A Roadmap to Viksit @ 2047 organized by College of Horticulture and Forestry, Thunag, Mandi on 13-14<sup>th</sup> February, 2025, Pp. 25.
- Twinkle manadadria, Prashant B. Sandipan, Pushpa Ruwali, R. K. Patel, P. S. Patel, Kishor Sharma Chitra Sharma (2025). *In vitro* evaluation of different carbon and nitrogen sources on the growth of *Fusarium oxysporum* f. sp. *vasinfectum*. Paper presented in National Conference on Indigenous Knowledge system for sustainable future- A Roadmap to Viksit @ 2047 organized by College of Horticulture and Forestry, Thunag, Mandi on 13-14<sup>th</sup> February, 2025, Pp. 26.
- Prashant B. Sandipan, Payal J. Kodavala, K. S. Jotangiya and Twinkle, M. (2025). Survey of Curvularia leaf spot disease in South Gujarat during the year 2024-25. Abstract presented in 12<sup>th</sup> International Conference (ICAVRI-



2025) on “Agriculture & Veterinary Transformative approach, Research & Innovation Forum” Organized by Goa College of Agriculture, Goa in associated with USA Dharwad, VNMKV, Parbhani, Directorate of Agriculture Goa, ISASTR Society, New Delhi from 16-18<sup>th</sup> November, 2025. Pp. 20.

- Payal Kodaval, Prashant B. Sandipan, Nirva Patel, Twinkle M. R., R. K. Patel, P. S. Patel, Kishor Sharma and Chitra Sharma. (2025). Pathogenicity and cultural characters of *Corynespora cassiicola* pathogen in cotton. Abstract presented in National conference on Scientific Interventions and Energy Research for Sustainable Future & Resilient Earth on October 30-31, 2025 organized by Department of Biosciences in association with Centre for Green Energy & Nanotechnology and HPU Biological Society, Himachal Pradesh University, Shimla. Pp. 4.
- Payal Kodaval, Prashant B. Sandipan, Nirva Patel, Twinkle M. R., R. K. Patel, P. S. Patel, Kishor Sharma and Chitra Sharma. (2025). Evaluation of different media on the growth of *Curvularia lunata* *in vitro* condition. Abstract presented in National conference on Scientific Interventions and Energy Research for Sustainable Future & Resilient Earth on October 30-31, 2025 organized by Department of Biosciences in association with Centre for Green Energy & Nanotechnology and HPU Biological Society, Himachal Pradesh University, Shimla. Pp. 7-8.
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- K.B. Sankat, M.M. Patel, P.S. Patel and M. C. Patel (2025). Effect of Land configuration and plant growth regulator on water logging management under south Gujarat condition. A Research paper published in souvenir of 6<sup>th</sup> International Agronomy Congress organized during November, 24-26, 2025 at New Delhi. PP 123-124.
- M.M. Patel, K.B. Sankat, P.S. Patel and M. C. Patel (2025). Enhancing cotton production, Resource utilization and sustainability through *Bt* cotton based Cropping Systems. A Research paper published in souvenir of 6<sup>th</sup> International Agronomy Congress organized during November, 24-26, 2025 at New Delhi. PP 28-29.
- P.S. Patel, K.B. Sankat, M.M. Patel and H. R. Ramani (2025). Effect of foliage spray of liquid nano-urea on cotton under irrigated condition. A Research paper published in souvenir of 6<sup>th</sup> International Agronomy Congress organized during November, 24-26, 2025 at New Delhi. PP 378-380.
- J. V. Patel, B. N. Vankar, M. M. Patel and P. S Patel (2025). Effect of weed and nutrient management on *kharif* sorghum (*Sorghum bicolor* L.) under south Gujarat condition. A Research paper published in souvenir of 6<sup>th</sup> International Agronomy Congress organized during November, 24-26, 2025 at New Delhi.
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- Patel U.G., Patel J.C. and Kumar V. (2004). Role of *Desi* Hybrids for Increasing Cotton Production and Productivity: Present scenario of *Desi* Hybrids in India. Paper presented at AICCIP Annual Group Meeting held at MPKV; Rahuri during April, 5-7, 2004.
- Pavasia M.J., Patel U.G. and Sankat K.B. (2004) Transfer of technology through front line demonstration in cotton. Paper presented at National symposium on changing world cotton research, development and policy in context. Organised by CCSHAU; Hisar at ANGRAU; Hyderabad during August 10-12, 2004.
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- Vadodaria M. P., Kumar V., Patel C. J., and Patel N. B. (2005). Paper presented at workshop on “Enhancement of Cotton Production and Quality” held at Main cotton Research station, NAU, Surat on 12<sup>th</sup> November, 2005, pp. 65-73.



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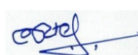
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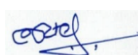
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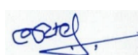
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- Faldu G.O. (2017). *National Seminar on “Sustainable Food Value Chain in Arena of Climate Change”* held on 2<sup>nd</sup> June, 2017 at Navsari organized by ASPEE college of horticulture and Forestry, NAU, Navsari
- Pawar S. L. (2017). Meeting for formulation of Technical Programme in cotton research for *kharif*-2017 season held on 28<sup>th</sup> April, 2017 at MCRS, Surat organized by MCRS, NAU, Surat
- Pawar S. L. (2017). Meeting of Board of Studies of Natural Resource Management of NAU held on 12<sup>th</sup> October, 2017 at Seminar hall, NAU, Navsari organized by NAU, Navsari.

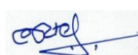


- Pawar S. L. (2017). Seventh Asian Cotton Research and Development Network (ACRDN) Meeting held on 15<sup>th</sup> to 17<sup>th</sup> September, 2017 at Nagpur, Maharashtra, India (Presented in Poster Session\*) organized by ISCI & CIRCOT, Mumbai
- Pawar S.L. (2017). One day workshop on Agro-Textiles held on 16<sup>th</sup> December, 2017 at MANTRA, Surat (Oral presentation\*\*) organized by The Institution of Engineers (India) Gujarat State Center & MANTRA, Surat
- Sankat K.B. (2017). Meeting for formulation of Technical Programme in cotton research for kharif-2017 season held on 28th April, 217 at NAU, Surat
- Sankat K.B. (2017). Meeting of Board of Studies of Natural Resource Management of NAU held on 12th October, 2017 at NAU, Navsari.
- Sankat K.B. (2018). 14<sup>th</sup> Meeting of Natural Resource Management Sub-Committee of AGRESCO of NAU held on 5<sup>th</sup> to 6<sup>th</sup> March, 2108 at NAU, Navsari.
- Sankat K.B. (2017). 7<sup>th</sup> Asiatic Cotton Research and Development Network Meeting cum Conference held on 15<sup>th</sup> to 17<sup>th</sup> September, 2017 at Hotel Le Meridien, Nagpur.
- Desai H. R., Bhanderi G. R., Patel R. D. (2018). 8<sup>th</sup> meeting of Board of Studies for Plant Protection Group held on 02/02/2018 at PG Seminar Hall, N.M. College of Agriculture, NAU, Navsari organized by Chairman & Professor and Head, Board of Studies for Plant Protection Department of Entomology, NMCA, NAU, Navsari
- Desai H. R., Bhanderi G. R., Patel R. D. (2018). 14<sup>th</sup> Plant Protection Sub-Committee Meeting (PPSC) AGRESCO held on 28/02/2018 & 01/03/2018 at Swami Vivekanand Hall, ASPEE College, Navsari organized by Convenor, AGRESCO (PPSC) & Professor and Head Department of Entomology, ASPEE College of Horticulture, NAU, Navsari
- Desai H. R. (2018). Implementation of Saral Krushi Yojana & Survey of Mango Stone Weevil held on 20/03/2018 at NAU, Navsari organized by Director of Research, NAU, Navsari
- Desai H. R. (2018). 14<sup>th</sup> Joing AGRESCO meeting of NAU held on 21/03/2018 at NAU, Navsari organized by Director of Research, NAU, Navsari
- Walesby P. R., Kumar V., Maisuria I. M., Desai H. R., Patel C. J., Sojitra R. and Chaudhary P. (2018). New Edge environment friendly technology for sustainable production of cotton and mitigating climate change. In: ICAC-13th Meeting of the Inter-Regional Co-operative Research Network on Cotton for the Mediterranean and Middle East Regions, Luxor, Egypt, February 02-06, 2018 (Presented by first Author).
- Bhanderi, G. R., Patel, R. D., Desai, H. R. and Patel, R. K. 2020. Assessment of yield losses due to mealybug (*Phenacoccusolenopsis* Tinsley) infestation in the cotton farmers' fields of south Gujarat. In: National symposium "Cotton production technologies in the next decade : problems and prospective" at Odisha University of Agriculture and Technology, Bhubaneswar-751003 (Odisha) held during January 22-24, 2020 (Poster presentation-Best Poster presentation Award)
- Lad, H. S. and Ramani, H. R. 2019. A review on sulphur metabolism and its deficiency in plants. Poster presentation in National seminar on Biochemical and Molecular Biology Intervention for Nutritional Security and Food safety held at N.M.College, Navsari Agricultural University on 12-13<sup>th</sup> December, 2019.
- Pansuriya, N. B., Thummar, P. H. and Ramani, H. R. 2019. Abiotic stress management in cotton. Poster presentation in National seminar on Biochemical and Molecular Biology Intervention for Nutritional Security and Food safety held at N.M.College, Navsari Agricultural University on 12-13<sup>th</sup> December, 2019.
- Parmar, P. R., Patel, H. K., Rajkumar, B. K., Patel, D. H. and Patel, M. C. 2020. Screening and efficacy of cellulose degrading bacteria on cotton stalk degradation. Presentation at National conference on Recent Trends in Biosciences and Environmental Science (RTBES 2020) organized by Department of Botany and Zoology, Khandesh college education society's Moolji Jaitha College, Jalgaon on 16-17<sup>th</sup> January, 2020.
- Patel D. H., Rajkumar B. K., Parmar P. R., Desai H. R., Solanki B. G. and Patel M. C. 2020. G. Cot. Hy. 12 (BG II) – A high yielding hybrid for irrigated and rainfed ecosystem of Gujarat. A paper published in Book of Oral Presentations in National symposium on cotton production technologies in the next decade: Problems and Perspectives held at Odisha University of Agriculture and Technology, Bhubaneswar, Odisha, January 22-24, 2020, pp. 14-20.
- Patel, E. M., Patel, D. H., Rajkumar, B. K., Parmar, P. R. and Patel, M. C. 2019. Genetic screening of G. Cot. 20 (*Gossypium hirsutum*) and G. 27 (*Gossypium 62rboretum*) using cDNA-based markers for identification of salt resistance. Poster presentation in National seminar on Biochemical and Molecular Biology Intervention for Nutritional Security and Food safety held at N.M.College, Navsari Agricultural University on 12-13<sup>th</sup> December, 2019.
- Patel, K., Rajkumar, B. K., Parmar, P. R., Patel, D. D., Solanki, B. G. and Patel, M. C. 2019. Determination of hybridity by utilizing molecular marker in desi cotton. A paper presented in National seminar on Biochemical and Molecular Biology Intervention for Nutritional Security and Food safety held at N.M.College, Navsari Agricultural University on 12-13<sup>th</sup> December, 2019.
- Patel, R. D., Bhanderi, G. R., Patel, D. N., Patel, Anjali and Desai, H. R. 2020. Validation and impact of IRM/IPM strategies for the management of pink bollworm in Bt cotton in Bharuch district of the Gujarat State. In: National



symposium “Cotton production technologies in the next decade : problems and prospective” at Odisha University of Agriculture and Technology, Bhubaneswar-751 003 (Odisha) held during January 22-24, 2020.

- Patel, T. U., Patel, M. L., Sankat, K. B. and Patel, D. D. 2020. Effect of planting density and nitrogen management in cotton under rainfed condition. A paper presented at National Symposium on “Cotton Production and Technologies in the Next Decade: Problems and Perspective” held at Odisha University of Agriculture and Technology, Bhubaneswar, Odisha, January 22-24, 2020.
- Pawar, S. L., Sankat, K. B. and Patel, C. K. 2020. Evaluation of high density planting system and fertilizer requirement of hirsutum cotton varieties. A paper published in Book of Oral Presentations in National Symposium on “Cotton Production and Technologies in the Next Decade: Problems and Perspective” held at Odisha University of Agriculture and Technology, Bhubaneswar, Odisha January 22-24, 2020, pp. 71-80.
- Rajkumar, B. K., Desai, I. V., Patel, D. H., Parmar, P. R. and Patel, M. C. 2020. Identification of cotton hybrids through PCR based molecular markers. A paper published in Book of Oral Presentations in National symposium on cotton production technologies in the next decade: Problems and Perspectives held at Odisha University of Agriculture and Technology, Bhubaneswar, Odisha, January 22-24, 2020, pp. 3-8.
- Ramani, H. R., Vekariya, V. K., Patel, D. M., Faldu, G. O. and Patel, M. C. 2020. Evaluation of cotton genotypes for seed oil, protein, gossypol contents. National symposium on cotton production technologies in the next decade: Problems and Perspectives held at Odisha University of Agriculture and Technology, Bhubaneswar, Odisha, January 22-24, 2020, pp.120-122.
- Ramani, H. R., Vekariya, V. K., Patel, D. M., Faldu, G. O. and Patel, M. C. 2019. Effect of salinity on growth characters and seed cotton yield of cotton genotypes. A paper presented in desi cotton in National seminar on Biochemical and Molecular Biology Intervention for Nutritional Security and Food safety held at N. M. College, Navsari Agricultural University on 12-13<sup>th</sup> December, 2019.
- Sandipan, P. B. and Patel, M. C. 2019. IDM modules for the management of Bacterial leaf blight and Alternaria leaf spot disease in natural condition under South Gujarat region of India. Abstract in National Symposium on “Cotton Production Technologies in the Next Decade: Problems and Perspectives” on January 22-24, 2020 at Odisha University of Agriculture and Technology (OUAT), Bhubaneswar, Odisha. pp.83.
- Sandipan, P. B., Patel, R. K., Patel, M. L. and Patel, A. D. 2019. Screening of *Gossypium arboreum* varieties/breeding materials for resistance to Bacterial leaf blight disease under natural and rainfed condition. Abstract in Souvenir of 7<sup>th</sup> International Virtual Congress (IVC-2019) (www.isca.net.co) on August 05<sup>th</sup>-10<sup>th</sup>, 2019
- Sankat, K. B., Pawar, S. L. and Patel, J. G. 2020. Influence of high density planting system on weed population in cotton (*Gossypium hirsutum* L.). A paper published in Book of Oral Presentations in National Symposium on “Cotton Production and Technologies in the Next Decade: Problems and Perspective” held at Odisha University of Agriculture and Technology, Bhubaneswar, Odisha, January 22-24, 2020, pp. 88-92.
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- Vekariya, V. K., Ramani, H. R., Pawar, S. L., Faldu, G. O. and Patel, M. C. 2020. Effect of date of sowing on cotton yield and yield attribute. Abstract in National symposium “Cotton production technologies in the next decade: problems and prospective” at Odisha University of Agriculture and Technology, Bhubaneswar-751 003 (Odisha) held during January 22-24, 2020, pp. 58-59.
- Bhavik K. Patel and Prashant B. Sandipan. 2020. Screening of different non systemic and systemic fungicides for the wilt disease of cotton under in vitro condition of South Gujarat. Abstract in the National Symposium on Plant Health Management on 2nd-4th November, 2020 organized by Department of Plant Pathology and Entomology, College of Agriculture, NAU, Campus Bharuch -392 012, Gujarat.
- Bhavik K. Patel and Prashant B. Sandipan. 2020. Screening of different biocontrol agents against Fusarium oxysporum f. sp. vasinfectum (FOV) under in vitro condition of South Gujarat. Abstract in the National Symposium on Plant Health Management on 2nd-4th November, 2020 organized by Department of Plant Pathology and Entomology, College of Agriculture, NAU, Campus Bharuch -392 012, Gujarat.
- Participated in Online Workshop on “HPTLC Technique and its Applications in Agriculture” organized by Department of Plant Molecular Biology and Biotechnology, ASPEE College of Horticulture and Forestry, Navsari Agricultural University, Navsari on 3rd November, 2020 through online mode
- Bhandari, G. R., Patel, R. D, Desai, H. R. and Patel, R. K. (2020). Assessment of yield losses due to mealybug (*Phenacoccusolenopsis* Tinsley) infestation in the cotton farmers’ fields of south Gujarat. In: National symposium “Cotton production technologies in the next decade: problems and prospective” at Odisha University of Agriculture and Technology, Bhubaneswar-751 003 (Odisha) held during January 22-24, 2020. p. 87. (Best poster presentation award to first author).



- Patel, R. D., Bhanderi, G. R., Patel, D. N., Patel Anjali and Desai, H. R. (2020). Validation and impact of IRM/IPM strategies for the management of pink bollworm in Bt cotton in Bharuch district of the Gujarat State. In: National symposium “Cotton production technologies in the next decade: problems and prospective” at Odisha University of Agriculture and Technology, Bhubaneswar-751 003 (Odisha) held during January 22-24, 2020. p. 86.
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- Rajkumar B. K., Preeti R Parmar., D. H. Patel., H. R. Desai., H. R. Ramani., R. D. Patel and M. C. Patel.(2022). Genetic Association of Biochemical Traits, Jassid Resistance and Yield in Recombinant Inbred Population of Cotton. in National Symposium on Paradigma shift in Cotton Cultivation to be organized at Maharana Pratap University of Agriculture and Technology, Udaipur – 313 001. 8 – 10 August, 2022. (Poster presentation)
- D. H. Patel, Reecha D. Patel, Rajkumar B.K., Preeti R Parmar and M. C. Patel. (2022). Molecular, morphological and biochemical evaluation of cotton genotypes under water stress (PP4.55). In National Symposium on "Emerging Innovations in Plant Molecules for Achieving Food and Nutritional Security (EIPMAFNS-2022)" Organized by Department of PMBB, ACHF, NAU, Navsari & Division of Biochemistry, ICAR-IARI, New Delhi in association with Society for Plant Biochemistry and Biotechnology, New Delhi on 22<sup>nd</sup> and 23<sup>rd</sup> September 2022 at NAU, Navsari. pp.267
- Rajkumar, BK and Fakrudin, B. (2022). Molecular Mapping of QTLs conferring root traits in sorghum recombinant inbred population. In 5<sup>th</sup> Plant Science Researchers Meet: National Conference on Agriculture, Applied and Life Science: Current Research, 18 – 19 November, 2022 p(32-33) (Abstract ID-5PSRM2022/036). Organized by PLANTICA Association of Plant Science Researchers (APSR) Dehradun, Uttarakhand, India.
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- V. K. Vekariya, H. R. Ramani, G. O. Faldu and M. C. Patel. (2022). Effect of sowing date and growth regulators on phenology of *Gossypium arboretum* L., ABSTRACT BOOK ‘National Symposium on Emerging Innovations in Plant Molecules for Achieving Food and Nutritional Security’ at NAU, Navsari, Pg. No. 259
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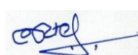


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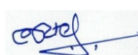


approaches for Coastal and Inland Ecosystems to sustain Productivity and Climate Resilience organized by NAU, Navsari, SCSU, New Delhi, GCSCSI, Navsari during October 13–15, 2022 at NAU, Navsari.

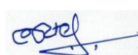
- Awarded Best Oral Presentation for paper presentation on “Surveillance on target spot of cotton caused by *Corynesporacassiicola* and its variability study”: An emerging disease of cotton in India. Authored by Satish K. Sain, Shailesh P. Gawande, Virendra Kumar, N. Chandrashekar, Dharmesh K. Dawara, Sree Lakshmi Bhattiprolu and Prashant B. Sandipan in Indian Phytopathology Society at 8<sup>th</sup> International Conference, Plant Pathology: Retrospect and Prospects on March 23-26, 2022 held at SKNAU, Jobner, Jaipur, Rajasthan, India.
- Prashant B. Sandipan, P. S. Patel, R. K. Patel and M. C. Patel. 2022. Efficacy of bioagents against cotton diseases under South Gujarat of India. Abstract in the National Symposium on “Emerging Innovations in Plant Molecules for Achieving Food and Nutritional Security” (EIPMAFNS-2022) on 22-23 September, 2022 organized by Department of Plant Molecular Biology and Biotechnology, ACHF, NAU, Navsari & Division of Biochemistry, ICAR-IARI, New Delhi in association with Society for Plant Biochemistry and Biotechnology, IARI, Pusa Campus, New Delhi.
- Patel Nirva, Sangani Paras and Sandipan Prashant B. 2022. Survey of the *Corynespora* Leaf spot Diseases and Isolation, Purification, Identification and Pathogenicity of *Corynesporacassiicola* under South Gujarat of India. Abstract in the Souvenir cum abstract book of IPS West Zone Symposium on Current Trends in Plant Disease Detection, Diagnosis and Management on November 16-17, 2022. Jointly organized by Department of Plant Pathology, N. M. College of Agriculture, NAU, Navsari – 396 450, Gujarat & Indian Phytopathological Society, India Agricultural Research Institute, New Delhi – 110012, India. Pp. 25.
- S. H. Paladiya, Sandipan P. B. and K. V. Bhavsar 2022. *Purpureocilliumlilacinum*: A Potential Bio-control Agent for Root Knot Nematode and Other Soil Borne Pathogens. Abstract in the Souvenir cum abstract book of IPS West Zone Symposium on Current Trends in Plant Disease Detection, Diagnosis and Management on November 16-17, 2022. Jointly organized by Department of Plant Pathology, N. M. College of Agriculture, NAU, Navsari – 396 450, Gujarat & Indian Phytopathological Society, India Agricultural Research Institute, New Delhi – 110012, India. Pp. 39-40.
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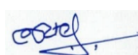
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### Books/Bulletins/Compilations

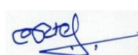
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### Cotton Research through PG Studies (Thesis)

SI	PG Student	Title	Year	Degree	Major Guide
<b>1</b>	<b>PHYSIOLOGY</b>				
	Thakare Harish Shriram	Physiological manipulation of Bt cotton Morphoframe by using ethylene	October 2009	M. Sc.	Dr. V. Kumar
	Patel Kirankumar Uttamrao	Physiological analysis of yield in cotton under irrigated and water stress condition	September 2011	M. Sc.	Dr. V. Kumar
	Thakare Harish Shriram	Physiological basis of heterosis in inter and intra specific cotton hybrids ( <i>Gossypium</i> spp.)	November 2013	Ph. D.	Dr. V. Kumar
	Nawalkar Dinesh Parashram	Influence of modification of morphoframe on physiology and yield in cotton	May 2014	Ph. D.	Dr. V. Kumar
	Singh Chandrakant	Physio-biochemical trial of cotton ( <i>Gossypium hirsutum</i> L.) in diallel cross for water stress tolerance and its molecular characterization	June 2014	Ph. D.	Dr. V. Kumar
<b>2</b>	<b>PLANT BREEDING &amp; GENETICS</b>				
	Patel BhavinkumarNare shbhai	Genetic study in <i>Gossypium hirsutum</i> L. cotton	June 2011	M. Sc.	Dr. M. R. Naik
	FalduGirishkumar Odhavji	Genetic analysis of qualitative and quantitative characters in American cotton ( <i>G. hirsutum</i> L.)	December 2011	Ph. D.	Dr. B. D. Jadhav
	Chaudhari Kirankumar Jashvantbhai	Genetic study of inter specific <i>desi</i> hybrids of cotton in respect to yield and fibre quality	July 2012	M. Sc.	Dr. B. G. Solanki
	Chaudhary Rakesh	Genetic analysis in inter specific <i>desi</i> hybrids of cotton in relation to yield and quality parameters	May 2013	M. Sc.	Dr. B. G. Solanki
	Lodam Vaibhav Ashokrao	Genetic analysis for morphological and fibre quality traits in American cotton	October 2013	Ph. D.	Dr. M. R. Naik
	Nakum J.S.	Line x Tester analysis in American cotton ( <i>G. hirsutum</i> L.)	November 2013	M. Sc.	Dr. K. V. Vadodariya
	Chaudhari Mahendrakumar Nanjibhai	Genetic diversiry analysis for seed cotton yield and fiber quality in cotton ( <i>Gossypium hirsutum</i> L.)	May 2017	M. Sc.	Dr. G.O.Faldu

SI	PG Student	Title	Year	Degree	Major Guide
	Wadikar P.B.	Genetic architecture and environmental adaptation for seed cotton yield, its contributing traits and fibre quality components in cotton( <i>Gossypium hirsutum</i> L.)	September 2017	Ph. D.	Dr. B. G. Solanki
	Upadhyay Shubham Nileshkumar	Genetic Architecture in Cotton ( <i>Gossypium hirsutum</i> L.).	2018	M.Sc. (Agri.)	Dr. D. H. Patel
	Patel Himalay Rajeshbhai	Genetic analysis of GMS based hybrids in cotton ( <i>Gossypium hirsutum</i> L.)	2018	M.Sc. (Agri.)	Dr. D. H. Patel
	Chauhan JignabaHarpalsinh	“HETEROSIS AND COMBINING ABILITY STUDIES IN DESI COTTON. ( <i>G. herbaceum</i> L.)	2020	M.Sc. (Agri.)	Dr. K. V. Vadodariya
	Makwana Trushti Maganlal	GENETIC ANALYSIS OF CMS-R BASED HYBRIDS IN SORGHUM “[ <i>Sorghum bicolor</i> (L.) Moench]”	2020	M.Sc. (Agri)	Dr.G.O.Faldu
	Parmar Nilesh D.	Genetic analysis of morphological, biochemical and quality traits in ( <i>G. hirsutum</i> L.)cotton	2020	M.Sc. (Agri)	Dr.G.O.Faldu
	Ahir Vaishali Jayantibhai	Genetic Architecture in Upland Cotton ( <i>Gossypium hirsutum</i> L.)	2020	M.Sc.	Dr. M.C.Patel
	Shruthi K.	Morphological and Molecular Variability in Cotton ( <i>Gossypium hirsutum</i> L.)	2020	M.Sc. (Agri)	Dr. D. H. Patel
	Patel Riya Hashmukhbhai	Evaluation of recombinant inbred lines for fibre quality parameters and morphological characters in cotton ( <i>Gossypium arboreum</i> L.) (*Awarded Late Dr.Champakbhai B. Patel, Gold Plated Silver Medal in 18 <sup>th</sup> Annual Convocation of NAU, Navsari held on 03/03/2023 for securing the highest OGPA & rating of the thesis in the subject of Plant Breeding & Genetics)	2021	M.Sc. (Agri)	Dr. D. H. Patel
	Butani MeetkumarKamleshbhai	Genetic diversions and co-relation studies in upland cotton ( <i>Gossypium hirsutum</i> L.)	2022	M.Sc. (Agri)	Dr. M. C. Patel
	Thorat BhumikabenShankarbhai	Genetic analysis for seed cotton yield and its components in upland cotton ( <i>Gossypium hirsutum</i> L.)	2022	M.Sc. (Agri)	Dr. M. C. Patel
	Kalasriya Dipak Bhagvanbhai	Genetic Analysis in cotton( <i>Gossypium hirsutum</i> L.) (*Awarded Late Dr.Champakbhai B. Patel, Gold Plated Silver Medal in 19 <sup>th</sup> Annual Convocation of NAU, Navsari held on 03/01/2024 for securing the highest OGPA & rating of the thesis in the subject of Plant Breeding & Genetics)	2022	M.Sc. (Agri)	Dr. D. H. Patel
	Tamboli Nileshkumar	GENETIC VARIABILITY AND D2 ANALYSIS IN COTTON ( <i>Gossypium hirsutum</i> L.)	2023	M.Sc. (Agri)	Dr. D. H. Patel
	RATHOD RAHULSINH CHANDRASINH	GENETICARCHITECTUREFOR SEED COTTONYIELDANDITSCOMPONENTSIN COTTON( <i>Gossypium hirsutum</i> L.)	July 2025	M.Sc. (Agri)	Dr. G. O. Faldu
	Dave Devangbhai Niranjambhai	Heterosis and combining ability analysis in cotton ( <i>Gossypium hirsutum</i> L.)	July 2025	M.Sc. (Agri)	Dr. D. H. Patel
<b>3</b>	<b>PLANT MOLECULAR BIOLOGY AND BIOTECHNOLOGY</b>				
	Morey Akshay Bhagwat	Physio-biochemical and Molecular characterization of cotton Genotypes ( <i>G. herbaceum</i> L.) for salinity	2020	M.Sc.	Dr. Rajkumar B. K.
	Panara	Isolation and molecular characterization of	2021	M.Sc.	Dr. Rajkumar B. K.

SI	PG Student	Title	Year	Degree	Major Guide
	Sandipkumar Shivjibhai	cellulose degrading bacteria			
	Sherasiya Jainulabedin Maheub	Isolation and Molecular Characterization of siderophore producing bacterial strains attributing antifungal activity	2022	M.Sc.	Dr. Rajkumar B. K.
	Badi Mohammadayaj Alimamad	Morpho-Physiological, Biochemical and Molecular profiling Interspecific Derivative of cotton genotypes under salinity stress during early seedling growth stage	2023	M.Sc.	Dr. Rajkumar B. K.
<b>4</b>	<b>AGRONOMY</b>				
	Gohil Mayursinh Harendrasinh	Effect of spacing and nitrogen levels on growth, yield and quality of Bt cotton ( <i>Gossypium hirsutum</i> L) under south Gujarat condition	September 2013	M. Sc.	Dr. V. P. Usdadia
	Desai Manishkumar Kanubhai	Effect of different levels, split application and methods of application of nitrogen on growth, yield and quality of Bt cotton ( <i>Gossypium hirsutum</i> L.) under south Gujarat condition	January 2014	M. Sc.	Dr. V. P. Usdadia
	Naharwada Robinsingh Bharatsingh	“Effect of different levels and sources of nitrogen in wheat ( <i>Triticum aestivum</i> L.) under coastal salt affected soil”	2020	M.Sc.	Dr. M. M. Patel
	Katariya Hitesh Arajanbhai	INTEGRATED WEED MANAGEMENT IN <i>KHARIF</i> MAIZE UNDER SOUTH GUJARAT CONDITION	2022-23	M.Sc. (Agri)	Dr. M. M. Patel
	Vankar Bhaveshkumar Narsinhbhai	EFFECT OF WEED AND NUTRIENT MANAGEMENT ON <i>KHARIF</i> SORGHUM ( <i>Sorghum bicolor</i> L.) UNDER SOUTH GUJARAT CONDITION	2022-23	M.Sc. (Agri)	Dr. M. M. Patel
	Patel Sweetykumari Vijaybhai	RESPONSE OF <i>Bt</i> COTTON TO WEED AND NUTRIENT MANAGEMENT UNDER SOUTH GUJARAT CONDITION	2023-24	M.Sc. (Agri)	Dr. M. M. Patel
	Karnavat Minarvaben Manchharam	Effect of high density planting and nutrient management on compact varieties of cotton	2024	M. Sc. (Agri)	Dr. M. M. Patel
	Adarsh L.	Effect of Organic Manures and Inorganic Fertilizers on Soil Health and Nutrient Requirement of Bt Cotton	2024	M. Sc. (Agri)	Dr. P. S. Patel
<b>5</b>	<b>Entomology</b>				
	M. V. Patel	Biology, Morphometrics and control of stem weevil ( <i>Alcidodes affaber</i> ) on Cotton	1966	M.Sc. (Agri.)	Dr. R. M. Patel
	H. N. Vyas	Some studies on bionomics and carryover of spotted bollworm ( <i>Eariaspp.</i> ) of cotton during off season	1966	M.Sc. (Agri.)	Dr. R. M. Patel
	P. A. Bhalani	Some studies on bionomics and control of cotton jassids ( <i>Empoasca devastans</i> Distant)	1970	M.Sc. (Agri.)	Dr. R. M. Patel
	M. A. Patel	Comparative effect of spraying of various insecticides on population of parasites of cotton spotted bollworm ( <i>Eariaspp.</i> )	1971	M.Sc. (Agri.)	Dr. R. M. Patel
	R. K. Gohil	Some observations on the biology and the control of the cotton spotted bollworm ( <i>Eariaspp.</i> ) in Saurashtra	1972	Ph.D.	Dr. G. M. Talati
	J. G. Bapodara	Studies on bionomics of cotton leaf roller ( <i>Syleptaderogata</i> F.)	1973	M.Sc. (Agri.)	Dr. H. N. Vyas
	N. B. Rote	Evaluation of insecticidal schedules against bollworms ( <i>Eariasfabia</i> S, <i>E. insulana</i> B. and	1973	M.Sc. (Agri.)	Dr. M. S. Chari

Sl	PG Student	Title	Year	Degree	Major Guide
		<i>Heliothis armigera</i> Hb.) on hybrid 4 cotton			
	R. K. Bharodia	Some studies on bionomics and control of a phytophagous mite of Deviran (170 Co 2) cotton in Junagadh area ( <i>Tetranychusneocaledonicus Andrei</i> )	1974	M.Sc. (Agri.)	Dr. G. M. Talati
	J. N. Lad	Studies on biology, seasonal incidence and chemical control of cotton <i>Tetranychusurticae</i> Koch (Tetranychidae : Acari) in Middle and South Gujarat area	1974	M.Sc. (Agri.)	Dr. V. J. Vora
	T. M. Manjunatha	Evaluation of the effect of two insecticidal schedules on important pests of hybrid 4 cotton and their natural enemies	1974	M.Sc. (Agri.)	Dr. R. C. Patel
	V. B. Sankpal	Studies on evaluation of some new insecticides against bollworms on hybrid 4 cotton under South Gujarat condition	1975	M.Sc. (Agri.)	Dr. A. H. Shah
	B. K. Patel	Biology of <i>Rogas aligarhensis</i> Q.A. larval parasite of <i>Eariasspp.</i>	1976	M.Sc. (Agri.)	Dr. R. C. Patel
	D. N. Yadav	Studies on the natural enemies of <i>Heliothis armigera</i> H. and its biological control using an egg parasite, <i>Trichogrammaaustralicum</i> G.	1976	Ph.D.	Dr. R. C. Patel
	N. V. Patel	Biology and control of cotton weevil stem borer ( <i>Alcidodesaffaber</i> )	1976	Ph.D.	Dr. G. M. Talati
	P. A. Bhalani	Morphology, bionomics and control of leaf weevil infesting cotton	1977	Ph.D.	Dr. G. M. Talati
	K. L. Raghvani	Evaluation of quinalphos formulations of M/s Sandoz (India) Ltd. for control of pest of hybrid 4 cotton vis-à-vis other standard insecticides	1978	M.Sc. (Agri.)	Dr. G. M. Talati
	B. N. Patel	Studies on effect of quinalphos vis-à-vis other insecticides on pest complex of hybrid 5 cotton	1979	M.Sc. (Agri.)	Dr. A. H. Shah
	R. M. Patel	Comparative evaluation of Sevisulf, Sevimolsulf and VC 51762 for the control of insect pests and mites infesting cotton	1980	M.Sc. (Agri.)	Dr. A. H. Shah
	K. A. Bandhania	Evaluation of some insecticide against their safety to the natural enemies of cotton bollworms in hybrid 4 cotton	1982	M.Sc. (Agri.)	Dr. D. N. Yadav
	R. D. Chauhan	Field evaluation of tetradifon (ATUL) in comparison to conventional acaricides against mite of cotton, sorghum and okra	1984	M.Sc. (Agri.)	Dr. C. B. Patel
	R. I. Patel	Evaluation of bio-efficacy of endosulfan using active ingredient and concentration based spray solution for control of cotton pest complex	1985	M.Sc. (Agri.)	Dr. A. H. Shah
	R. K. Patel	Studies on different types of threshold levels for the control of <i>Eariasspp.</i> on G. Cot. Hy. 6 cotton in South Gujarat	1986	Ph.D.	Dr. A. H. Shah
	I. M. Maisuria	Investigations on need based applications of synthetic pyrethroids and their schedules against bollworms on G. Cot. DH 7 cotton under rainfed conditions	1988	M.Sc. (Agri.)	Dr. C. B. Patel
	J. J. Patel	Influence of nozzles and spraying techniques on bio-efficacy of insecticides against pest complex of cotton	1990	M.Sc. (Agri.)	Dr. C. B. Patel
	J. J. Pastagia	Techno economic benefits of new spraying techniques for cotton crop and biology of cotton jassids, <i>Amrasca biguttula biguttula</i> Ishida on cotton	1990	M.Sc. (Agri.)	Dr. A. H. Shah

SI	PG Student	Title	Year	Degree	Major Guide
	J. D. Patel	Succession of important pests and estimation of avoidable losses due to pest complex in cotton in North Gujarat	1994	M.Sc. (Agri.)	Dr. G. M. Patel
	C. J. Patel	Assessment of partitioned growth stage yield losses due to insect pests of cotton	2007	Ph. D	Dr. M. S. Purohit
	S. R. Pawar	Investigations on cotton mealy bug, <i>Phenacoccusolenopsis</i> Tinsley on Bt cotton under south Gujarat condition	2011	M.Sc. (Agri.)	Dr. H. R. Desai
	N. M. Patel	Impact of agronomic practices on incidence of different insect pests and their management in high density planting of cotton	2014	M.Sc. (Agri.)	Dr. H. R. Desai
	V. K. Chaudhari	Development of economic threshold level and quantifying resistance build up in leaf hopper ( <i>Amarasca biguttula biguttula</i> Ishida) on cotton under south Gujarat condition	2014	M.Sc. (Agri.)	Dr. H. R. Desai
	D. V. Bhojani	Feeding potential of <i>Chrysoperlazastrowisillemi</i> (Esben-Petersor) on aphid and mealybug and their relative susceptibility to pesticides used in Bt cotton	2015	M.Sc. (Agri.)	Dr. H. R. Desai
	Rathod K R	Incidence of bollworms on Bt and non-Bt cotton hybrid under south Gujarat condition	2016	M.Sc. (Agri.)	Dr. H. R. Desai
	Zinzuvadiya Hasmukh D.	Morphological and Molecular Variation in Population of Pink bollworm in South Gujarat	2017	M.Sc. (Agri.)	Dr. H. R. Desai
	Sanghani Niraliben Jamanbhai	Feeding potential of <i>Cheilomenessexmaculata</i> (F.) on aphid and mealybug and their relative susceptibility to pesticides used in cotton	2017	M.Sc. (Agri.)	Dr. G. R. Bhandari
	Manukumar R.	Efficacy of plant derived oils/extracts on sucking pests of Bt cotton	2018	M.Sc. (Agri.)	Dr. H. R. Desai
	Chauhan Krunalkumar Himmatbhai	Population dynamics and evaluation of insecticides against cotton thrips	2018	M.Sc. (Agri.)	Dr. R. D. Patel
	Parmar Karankumar Hiralal	Effect of potash application on incidence of Bollworm in Cotton	2020	M.Sc. (Agri.)	Dr. H. R. Desai
	Nagarjuna T N	Resistance to insecticides in different field population of cotton leafhopper, <i>Amrasca biguttula biguttula</i> Ishida (Hemiptera: Cicadellidae) in Bharuch district, Gujarat	2020	M.Sc. (Agri.)	Dr. H. R. Desai
	Tirupati Sinipini	Effect of potash application on incidence of sucking pests in Bt cotton hybrid	2020	M.Sc. (Agri.)	Dr. H. R. Desai
	Rudani Namrataben Atulbhai	Resistance to insecticides in different field population of cotton aphid, <i>Aphis gossypii</i> Glover (Hemiptera: Aphididae) in Bharuch district, Gujarat	2020	M.Sc. (Agri.)	Dr. R. D. Patel
	Patel Zinalkumari Kanubhai	Bio-efficacy of insecticides against cotton aphid, <i>Aphis gossypii</i> Glover and their residual status in cotton seed and lint. (*Awarded Late Dr.Champakbhai B. Patel, Gold Plated Silver Medal in 18 <sup>th</sup> Annual Convocation of NAU, Navsari held on 03/03/2023 for securing the highest OGPA & rating of the thesis in the subject of Entomology)	2021	M.Sc. (Agri.)	Dr. R. D. Patel
	Desai Ankur Vinodbhai	Insecticide induced resurgence in cotton mealybug, <i>Phenacoccusolenopsis</i> Tinsley (Psuedococcidae: Homoptera)	2022	Ph.D.	Dr. H. R. Desai
	Parmar Pravinbhai Raysangbhai	Efficacy of seed treatment chemicals against sucking pests of Bt cotton	2022	M.Sc. (Ento.)	Dr. G. R. Bhandar

Sl	PG Student	Title	Year	Degree	Major Guide
	Rathod Tanviben Ramanbhai	Investigation on off-season survival of cotton pink bollworm in South Gujarat	2023	M.Sc. (Ento.)	Dr. H. R. Desai
	Dalsaniya Nirali Savjibhai	Biology and management of leaf roller, <i>Syleptaderogata</i> (Fabricius) in cotton	2023	M.Sc. (Ento.)	Dr. R. D. Patel
	Bhuva Krishnaben Jesukhbhai	Extraction and characterization of chitin from pheromone trapped male moths in cotton	2025	Ph.D.	Dr. H. R. Desai
	Dhane Ankur Sudam	Diversity of spiders (Arachnida: Araneae) in cotton fields of Surat and Bharuch districts of South Gujarat	2025	Ph.D.	Dr. H. R. Desai
	Buha Priyanshi Pareshbhai	Incidence and yield losses due to bollworm complex in cultivated cotton species	2025	M. Sc. (Agri.)	Dr. G. R. Bhandar
	Chaudhari Sudeviben Ganeshbhai	Efficacy of insecticides as stem application against sucking pests in Bt cotton	2025	M. Sc. (Agri.)	Dr. R. D. Patel
	<b>Pathology</b>				
	Patel Bhavikbhai Karshanbhai	Investigation on cotton wilt caused by <i>Fusarium oxysporum</i> f. sp. <i>vasinfectum</i> (Akt.) W. C. Snyder & H. N. Hansen	2018	M.Sc. (Agri.)	Dr. P. B.Sandipan
	Paladiya Sharadkumar Harshadbhai	Characterization and Antagonistic Potentiality of <i>Purpureocillium</i> spp.	2018	M.Sc. (Agri.)	Dr. P. B.Sandipan
	Nirvaben Patel	INVESTIGATION ON TARGET SPOT OF COTTON CAUSED BY <i>Corynesporacassiicola</i> (Berk. & M. A. Curtis) C. T. Wei”	2022	M.Sc. (Agri.)	Dr. P. B.Sandipan
	Sangani Paraskumar Nitinbhai	STUDIES ON TARGET LEAF SPOT OF COTTON CAUSED BY <i>Corynesporacassiicola</i> (Berk. & M. A. Curtis) C. T. Wei	2023	M.Sc. (Agri.)	Dr. P. B.Sandipan
	Manavadria Twinkle Dipakkumar	STUDIES ON COTTON WILT CAUSED BY <i>Fusarium oxysporum</i> f. sp. <i>vasinfectum</i> (Akt.) W.C. Snyder & H. N. Hansen	2024	M. Sc.	Dr. P.B.Sandipan
	Kodavala Payalben J.	STUDIES ON CURVULARIA LEAF SPOT DISEASE OF COTTON CAUSED BY <i>Curvularialunata</i> (WAKKER) BOEDIJN	2024	M. Sc.	Dr. P.B.Sandipan
	Gopal Lal Dhaker	Investigation on bacterial leaf blight disease ( <i>Xanthomonas campestris</i> pv. <i>malvacearum</i> (Smith) Dye) of cotton	2025	M. Sc.	Dr. P.B.Sandipan
	Kodavala Payal J.	Studies on curvularia leaf spot of cotton caused by <i>curvularia lunata</i> (wakker) boedijn	2025	M. Sc.	Dr. P.B.Sandipan
7	<b>Micro-Biology</b>				
	Himani Patel	Screening of cellulose degrading bacteria and its efficacy to degrade cotton stalk in static condition	2019	M.Sc. Bio technology	Dr. P. R. Parmar
8	<b>Biochemistry</b>				
	Pansuriya Namrtaben B.	Biochemical and molecular characterization of cotton genotypes for drought tolerance	May-2020	M.Sc (Agri)	Dr. H. R.Ramani
	Lad Hardik S.	Effect of different level of sulphur on biochemical and physiological characters of cotton ( <i>Gossypium Hirsutum</i> L.)”	Sept-2021	M.Sc (Agri)	Dr. H. R. Ramani
	Korant Neel Parasotam	NUTRITIONAL ANALYSIS OF RAW, COOKED AND SPROUTED COWPEA GENOTYPES	Sept-2022	M.Sc (Agri)	Dr. H. R. Ramani
	Marakana Palav Rameshbhai	BIOCHEMICAL CHARACTERIZATION OF COTTON HYBRIDS AND THEIR PARENTS	Sept-2022	M.Sc (Agri)	Dr. H. R. Ramani

SI	PG Student	Title	Year	Degree	Major Guide
	Fensikumari N. Chaudhari	Effect of growth retardant on biochemical and physiological characters of cotton	2025	M.Sc	Dr. H. R. Ramani
	Marakana Palav R.	Variability for grain minerals ,protein and agronomic traits in finger millet germplasm and association of grain iron and zink with other traits	2025	Ph.D.	Dr. H. R. Ramani



## (૬) બહાર પાડવામાં આવેલ વર્ષવાર ભલામણોની વિગત

**Cotton Improvement**

Sr.	G. herbaceum	Year of Release	G. arboreum	Year of Release	G. hirsutum	Year of Release	G. barbadense	Year of Release
1	G.Cot.11	1979	G.Cot.15	1989	G.Cot.10	1974	GN.Cot.103	2014
2	G.Cot.13	1981	G.Cot.19	1997	G.Cot.100	1974		
3	G.Cot.17	1995	GN.Cot.29	2017	G.Cot.12	1981		
4	G.Cot.21	1998			G.Cot.14	1986		
5	G.Cot.23	2000			G.Cot.16	1995		
6	GN.Cot.25	2010			G.Cot.18	1999		
7	ADC-1	2010			G.Cot.20	2007		
8	ADC-2	2015			GN.Cot.22	2013		
9	G.Cot.27 (Surati Sonu)	2024			GN.Cot.26	2017		
10					GN.Cot.32	2017		
11					G.Cot.34	2019		
12					G.Cot.36	2019		
13					G.Cot.40	2020		
14					G.Cot.42	2020		
15					GN.Cot.44	2022		
16					G.Cot.10 Bt	2024		

Sr.	H x H Hybrid	Year of Release	H x B hybrid	Year of Release	Desi hybrid	Year of Release	Bt Hybrid (H x H Hybrid)	Year of Release
1	Hybrid-4	1971	G.Cot.Hy .102	2002	G.Cot.DH-7	1984	G.Cot.Hy-6 (BGII)	2012
2	G.Cot.Hy-6	1980			G.Cot.DH-9	1989	G.Cot.Hy-8 (BGII)	2012
3	G.Cot.Hy-8	1988			G.Cot.MD H-11	2002	G.Cot.Hy-10 (BGII)	2015
4	G.Cot.Hy-10	1995					G.Cot.Hy-12 (BGII)	2015
5	G.Cot.Hy-12	2005						
6	GN.Cot.Hy-14	2014						
7	GN.Cot.Hy-18	2017						

**AGRONOMY**

Sr. No.	Item	Centre & Year
1	G.Cot.10 should be sown at 90 x 60 cm spacing keeping two plant/hill with application of 150 Kg N/ha. Of the total nitrogen 50 Kg N/ha should be applied as basal and remaining quantity of nitrogen should be applied in two equal splits at an interval of one month from basal application as it gave higher seed cotton yield and monetary returns	Surat, 1983
2	In cotton Hybrid-4 thinning of the plant should be done after 15 to 30 days of germination keeping one plant/hill.	Surat, 1983
3	To secure higher seed cotton yield and monetary returns, farmers of South Gujarat are advised to sow the G.Cot.Hy-6 at 120 x 60 cm spacing keeping two plants/hill with application of 240 Kg N/ha. Of the total nitrogen 25% N should be applied as basal dressing and remaining quantity of nitrogen should be top dressed in three equal splits at an interval of one month from basal dressing.	Surat, 1983
4	Spraying of Ronstar as pre-emergence @ 1.00 lit.a.i./ha Diuron as post-emergence @ 0.75 Kg a.i./ha 20 days after pre-emergence treatment + 4 hand weeding or Ronstar as pre-emergence @ 1.00 Lit a.i./ha + Diuron as post emergence @ 0.75 Kg a.i./ha + 2 <sup>nd</sup> weeding or Basalin @ 1.25 lit a.i./ha as pre-planting + Diuron as post emergence @ 0.75 Kg a.i./ha + 2 hand weeding gave effective and economic weed control in Hybrid-4 cotton under irrigated conditions in South Gujarat.	Surat, 1983

5	Variety Sanjay keeping 60cm inter row and 15 to 20cm Intra row spacing with application of 25 Kg N/ha in two equal splits i.e. ½ N as basal dressing and remaining ½ after one month from sowing is recommended under rainfed conditions at Amreli.	Amreli, 1984
6	For getting higher production of seed cotton, the farmers of Sabarkantha district are advised to sow cotton Hybrid-4 on 1 <sup>st</sup> June with irrigation and apply 180-60-60 NPK Kg/ha. of the total fertilizer ½ N + all P and K should be applied at sowing and the remaining quantity of N should be applied in three equal splits at squaring, flowering and boll setting stages, respectively	Surat, 1984
7	For getting higher production of seed cotton and more net returns/ha, farmers of South Gujarat are advised to sow cotton Hybrid-4 at 120 x 60 cm spacing with application of 320 Kg N per ha. Of the total nitrogen, 25% nitrogen should be applied as basal dressing and remaining 75% of nitrogen should be applied as top dressing in three equal splits in the form of urea at an interval of one month after basal dressing. Addition of P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O was not advantageous.	Surat, 1984
8	For getting higher production of seed cotton and more net returns per ha, farmers of South Gujarat are advised to sow cotton G.Cot.Hy-6 at 120 x 45 cm spacing with application of 320 Kg N per ha. Of the total nitrogen 25% nitrogen should be applied as basal dressing and remaining 75% of nitrogen should be applied as top dressing in three equal splits form of urea at an interval of one month after basal dressing. Addition of P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O was not advantageous.	Surat, 1984
9	To secure higher seed cotton yield and net returns from G.Cot.Hy-6 under rainfed condition of Bharuch, farmers are advised to sow at 90 x 30 cm spacing with application of 120 Kg N/ha. Of the total nitrogen 50% should be applied as basal and remaining quantity should be top dressed in the form of urea after 1-1.5 month from basal dressing.	Bharuch, 1984
10	To secure higher seed cotton yield and monetary returns from G.Cot.11 under rainfed condition of Bharuch, G.Cot.11 should be sown at 90 x 30 cm spacing with application of 40 Kg nitrogen. Of the total nitrogen 50% of nitrogen should be applied as basal dressing and remaining 50% of nitrogen should be applied as top dressing after 1-1.5 months from basal dressing. Addition of P <sub>2</sub> O <sub>5</sub> was not advantageous.	Bharuch, 1984)
11	Variety G.Cot.11 should be grown by keeping a distance of 90cm between rows and 60cm within rows with application of 80 Kg N per ha. of the total nitrogen, 50% should be applied as basal dressing and remaining quantity in two equal splits at an interval of one month from basal dressing under irrigated conditions of Achhalia. Addition of P <sub>2</sub> O <sub>5</sub> was not advantageous.	Achhalia, 1984
12	Variety G.Cot.Hy-6 should be grown at 90x30 cm spacing with application of 160 Kg N per ha in four equal splits i.e. 40 Kg N per ha as basal and remaining quantity of nitrogen should be applied in three equal splits each at an interval of one month from basal dressing under irrigated conditions of Middle Gujarat Zone. Addition of P <sub>2</sub> O <sub>5</sub> was not advantageous.	Achhalia, 1984
13	Farmers of Sabarkantha district are advised to grow G.Cot.Hy-6 at 90x30 or 90x60 cms spacing with application of 160 Kg N per ha. Of the total nitrogen, 25% of nitrogen should be applied as basal dressing and remaining 75% of nitrogen should be applied in three equal splits each at an interval of one month from basal dressing. Addition to P <sub>2</sub> O <sub>5</sub> and K <sub>2</sub> O was not advantageous.	Talod, 1984
14	Farmers of Junagadh districts are advised to sow G.Cot.Hy-6 at 90x30 cm or 90x45 cm spacing with application or 160 Kg N per ha. Of the total nitrogen 25% of nitrogen should be applied as basal dressing and remaining 75% of nitrogen should be applied in three equal splits each at an interval of one month from basal dressing. Addition of P <sub>2</sub> O <sub>5</sub> was not advantageous.	Junagadh, 1984
15	For getting higher seed cotton yield, variety G.Cot.11 should be sown at 90x30 cm spacing with application of 40 Kg N per ha in two equal splits i.e. 50% of nitrogen as basal dressing and remaining 50% nitrogen after 1 to 1.5 months from sowing under rainfed condition of Khedbrahma. Application of P <sub>2</sub> O <sub>5</sub> was not advantageous.	Khedbrahma, 1984
16	To secure higher production of seed cotton as well as higher economic return from irrigated cotton G.Cot.DH-7, farmers of South Gujarat are advised to sow at 90x60 or 120 x 60cms by keeping one plant per hill with application of 160 Kg N per ha. of the total nitrogen, 25% of N should be applied as basal dressing and remaining 75% of nitrogen should be applied as top dressing in three equal splits in the form of urea at an interval of one month after basal dressing	Surat, 1984
17	To secure higher production of seed cotton as well as higher economic return from irrigated cotton G.Cot.11, farmers of South Gujarat are advised to sow at 90x60 or 120 x 60 cms spacing by keeping one plant per hill with application of 160 Kg N per ha. Of the total nitrogen 25% of N should be applied as basal dressing and remaining 75% of N should be applied as top dressing in three equal splits in the form of urea at an interval of one month after basal dressing.	Surat, 1984

18	For getting higher seed cotton yield, farmers of South Gujarat are advised to sow G.Cot.Hyb-6 at 120 x 45 cm spacing with application of 320 Kg N/ha in four equal splits i.e. 25% as basal, 25% at squaring, 25% at flowering and 25% at first boll bursting stage under irrigated conditions	Surat, 1985
19	Farmers of Wagad cotton zone are advised to sow cotton variety G.Cot.13 at 45 x 22.5 cm spacing with application of 40 Kg N/ha in two equal splits i.e. 50% of nitrogen should be applied as basal dressing and remaining 50% of nitrogen as top dressing in form of urea at 1-1.5 months after sowing under rainfed condition.	Viramgam, 1985
20	To secure higher production of cotton as well as higher economical returns from irrigated cotton G.Cot.Hy-8 farmers of South Gujarat are advised to sow at 120x45 cms spacing with one plant per hill or 120 x 60cm spacing keeping two plants per hill with application of 320 Kg N/ha. of the total nitrogen, 25% N should be applied as basal dressing and remaining 75% N should be applied as top dressing in three equal splits in the form of urea at an interval of one month after basal dressing.	Surat, 1989
21	For getting higher seed cotton yield as well as higher net additional income, G.Cot.DH-7 should be sown at 90x60 cm spacing with application of 120 Kg N/ha under rainfed condition of Bharuch of the total nitrogen 50% should be applied as basal dressing and remaining 50% should be applied as top dressing after 1-1.5 month from sowing.	Bharuch, 1989
22	To secure higher production of seed cotton as well as economical returns from irrigated cotton G.Cot.14. Farmers of South Gujarat are advised to sow 90 x 60 cm spacing with one plant per hill with application of 225 Kg N/ha. of the total nitrogen, 75 Kg N/ha should be applied as basal dressing and remaining 150 Kg N/ha should be applied as top dressing in two equal splits in the form of urea at an interval of one month after basal dressing. If the seeds of G.Cot.14 is not available, G.Cot.10 should be sown as per recommendation of G.Cot.14	Surat, 1989
23	To secure higher production of seed cotton as well as economical returns from irrigated cotton G.Cot.DH-9, farmers of South Gujarat are advised to sow at 90 x 60 cm spacing with application of 160 Kg N/ha. of the total nitrogen, 40 Kg N should be applied as basal dressing and remaining 120 Kg N should be applied as top dressing in three equal splits in the form of urea at an interval of one month after basal dressing	Surat, 1991
24	To secure higher production of seed cotton as well as economical return from irrigated cotton G.Cot.14, farmers of North Gujarat (dry zone) are advised to sow at 90 x 30 cm spacing with one plant/hill with application of 150 Kg N/ha. Of the total N 50 Kg N/ha should be applied as basal dressing and remaining 100 Kg N/ha should be applied as top dressing in two equal splits at an interval of one month after basal dressing. If the seeds of G.Cot.14 are not available G.Cot.10 should be sown as per recommendation of G.Cot.14.	Talod, 1991
25	Under Khedbrahma (North Gujarat, dry zone) soil and climatic condition, G.Cot.Hyb.6 should be grown with a spacing of 90 x 30 cm with the application of N at the rate of 80 Kg N/ha in two equal splits.	Khedbrahma, 1991
26	For securing higher profit farmers of South Gujarat Zone-II are advised to adopt inter cropping of Soyabean in cotton with 100% recommended dose of Nitrogen to cotton (80 Kg N/ha) and 50% recommended dose of N & P to Soyabean (10 Kg N & 20 Kg P <sub>2</sub> O <sub>5</sub> /ha) or 50% recommended dose to cotton and 100% recommended dose to Soyabean under rainfed condition of South Gujarat Zone-II.	Bharuch, 1992
27	For securing higher profit, farmers of South Gujarat Zone-II growing rainfed cotton (G.Cot.11) or Tur (B.D.N.2) at distance of 120 cm between rows are advised to intercrop by two rows of urid (30cm apart) in between the rows.	Bharuch, 1993
28	For securing higher net monetary returns farmer of South Gujarat Zone-II growing irrigated cotton G.Cot.Hyb-8 and G.Cot.Hyb-6 are advised to grow wheat (Lok-1) or Groundnut (G.2) as second crop.	Surat, 1993
29	For securing higher net profit farmer of South Gujarat Zone-II growing irrigated cotton G.Cot.Hy-6 at a distance to 120cm between rows are advised to intercrop by one row or Soyabean (G.1) or urid (Zandewal) or Mung (G-2) in between the rows.	Surat, 1994
30	Farmer of South Gujarat Zone are advised to sow cotton (G.Cot.Hyb-6 or 8) during first week of June and follow it with summer groundnut (32% more income).	Surat, 1995
31	Farmers of South Saurashtra Zone growing irrigated cotton (G.Cot.Hyb-8) are advised to sow at 90 x 30 cms spacing with application of 80Kg N/ha (19% more income).	Junagadh, 1995
32	Farmers of South Gujarat Zone cultivating cotton (Hybrid 8) are advised to intercrop it with groundnut (1:2) to get 19% more income.	Surat, 1995

33	The farmer of South Gujarat zone-II growing irrigated cotton G.Cot.Hy-10 are advised to sow at 120 x 45 cms spacing with application of 240 Kg N/ha in four equal splits	Surat, 1996
34	Farmers of South Gujarat Zone (AES-II) growing cotton G.Cot.Hy-8 under irrigated condition are advised to apply 4 irrigations, each of 70mm depth at an interval of 24-28 days for securing higher net profit. The first irrigation should be given after 20.25 days from cessation of rainfall	Surat, 1996
35	The farmer of South Gujarat zone following cotton + Soybean inter cropping system are advised to apply 64 Kg N/ha (80% of RD) to cotton and 10 Kg N & 20 Kg P <sub>2</sub> O <sub>5</sub> /ha (50% of RD) to soybean	Bharuch, 1996
36	The farmers of South Gujarat zone growing G.Cot.16 under rainfed condition of Bharuch are advised to adopt spacing of 90 x 30 cms and fertilize it with 80 Kg N/ha	Bharuch, 1997
37	Farmers of South Gujarat Zone growing irrigated cotton G.Cot.Hy-8 are advised to sow at 90 x 30 cm spacing with application of 160 Kg N/ha. (ICBR 1:8.71). Addition of phosphorus was not found advantageous	Talod, 1997
38	For securing higher seed cotton yield, farmers of South Gujarat zone growing G.Cot.DH-9 under rainfed condition are advised to sow 120 x 60 cms spacing with application of 80 Kg N/ha (ICBR 1:4.16)	Bharuch, 1997
39	For securing higher seed cotton yield, farmers of South Gujarat zone growing G.Cot.17 under rainfed condition are advised to sow at 120 cm x 45 cm spacing with application of 80 Kg N/ha. Application of phosphorus was not found advantageous.	Bharuch, 1999
40	Farmers of South Gujarat Zone (AES-II) growing irrigated cotton (G.Cot.Hy-10) under rainfed condition are advised to sow at 120 cm x 30 cm spacing with application of 80 Kg N/ha. Application of phosphorus was not advantageous.	Bharuch, 1999
41	Farmers of South Gujarat Zone (AES-II) growing irrigated cotton (G.Cot.Hy-6) are advised to adopt drip technology under constraints of irrigated water to save 43% water and bring about 0.74 ha additional area under irrigated. The system should be laid out at a distance of 1.2 mt with a dripper (4 lph) spacing of 0.45 mt and operated for 60 to 70 minutes on alternate day (0.4 PEF). Topping has not been found advantageous.	Surat, 1999
42	Farmers of North Gujarat Zone-IV under rainfed condition are advised to grow cotton G.Cot.DH-9 at 120 x 30 cm spacing with application of 80 Kg N/ha and 40 Kg P <sub>2</sub> O <sub>5</sub> /ha for securing higher seed cotton yield as well as higher net profit. Nitrogen should be applied in two splits (50% as basal dose, 50% after one and half month).	Khedbrahma, 2000
43	Farmers of North Gujarat Zone-IV growing irrigated cotton G.Cot.Hy-10 in sandy loam soil are advised to apply 160 Kg N/ha in four equal splits for securing more net return per rupee invested in nitrogen application (ICBR of 1:8.62).Addition of phosphorus is not found advantageous	Talod, 2001
44	Farmers of South Gujarat Zone-II in agro-ecological situation-I, growing cotton, G.Cot.Hyb-10 are advised to carry out four hand weeding (i.e., 25, 50, 75 & 100 days after sowing) with 2 interculture to get maximum seed cotton yield and economic return (1: 6.14) and in shortage of labourers, fluchlorine application at the rate of 0.625 kg a.i./ha as pre-sowing. Land application with 2 hand-weeding at 50 and 75 DAS and 2 interculture.	Achhalia, 2001
45	Farmers of South Gujarat Zone-II growing organic cotton under rainfed condition are advised to sow cotton hybrid G. Cot. Hy- 8 with application of only castor cake @ 2 tonns/ha. Variety G.Cot.10 with application of castor cake (2 tonns/ha.), Azatobacter @ 2.5 kg/ha as soil application, G.Cot. 17 with application of castor cake only (2 tonns/ha) and G.Cot. DH-9 with application of castor cake only (2 tonns/ha) foe getting maximum profit.	Bharuch, 2001
46	The farmers of wagad zone are advised to follow the spacing of 210 x 30 cm for rainfed cotton (G.Cot.23) to have operational convenience with tractor drain attachments and to reduce cost of cultivation without significant reduction in seed cotton yield.	Viramgam, 2003
47	The cotton growing farmers of Nourth Gujarat in rainfed condition are advised to apply only recommended dose of nitrogen (80 Kg/ha) to rainfed hybrid cotton G.Cot.Hy-8. Application of phosphatic or potash fertilizer doses not given any significant advantage in yield.	Khedbrahma, 2003
48	The cotton growing farmers of wagad zone interasted to produce organic cotton (G.Cot.21) are advise to apply nitrogen (40 Kg/ha) through Castor Cake or FYM + Cater Cake + Azotobacter seeds inoculation under rainfed condition.	Viramgam, 2003
49	The hybrid cotton growing farmers of North Gujarat in rainfed situation are advised to irrigate the crop through drip with paired row planting method (0.45 x 0.60 x 1.80 mt) to save 40% of irrigation water and get about 23% increased in yield over surface method of irrigation. The	Khedbrahma, 2003

	system should be laid out with 2.4 mt and 0.45 mt lateral and dripper spacing, respectively. For saving system cost lateral should be placed in the paired row of cotton and operated at 1.2 Kg/cm <sup>2</sup> with 4 LPH dripper discharge. The system should be operated for 40 minutes during September and October, 35 minutes during November and December while 45 minutes in January at an alternate day.	
50	Farmers of South Gujarat Zone-II growing cotton under rainfed condition are advised to sow variety G.Cot.23 at 120 x 45 cm spacing with application of 80 kg N/ha (in three equal splits at 25-30 days after germination and subsequently twice at one month interval) for getting higher yield and return. Application of phosphorus was not advantageous.	Bharuch, 2004
51	Farmer of South Gujarat zone-II growing G.Cot.Hy-12 under rainfed condition are advised to sow at 120 x 60 cm with application of 80 Kg N/ha and 40 Kg P <sub>2</sub> O <sub>5</sub> /ha.	Bharuch, 2008
52	The farmers of South Gujarat zone-II growing cotton-G.Cot.Hy-10 under irrigated conditions are advised to spray 3 % KNO <sub>3</sub> at squaring, flowering and boll development stages for getting higher seed cotton yield and net profit.	Surat, 2010
53	The farmers of South Gujarat zone-II growing Bt cotton (RCH 2) under irrigated conditions are advised to sow cotton at 120 x 45 cm spacing and fertilize @ 240 kg N/ha in four equal splits i.e. 25% after 25 DAS and remaining three splits at 25 days interval to obtain higher yield and net profit. In soil with marginal available P status, farmers can apply P <sub>2</sub> O <sub>5</sub> @ 40 kg /ha as basal.	Surat, 2010
54	The farmers of South Gujarat zone-II growing irrigated Bt Cotton are advised to apply Pendimethalin @ 1.00 kg a.i./ha. as pre-emergence followed by two hand weeding at 30 & 60 days after sowing to obtain higher seed cotton yield and net profit	Surat, 2011
55	The farmers of South Gujarat zone-II growing Bt Cotton (RCH BG-I) are advised to apply recommended dose of Nitrogen (240 kg/ha) in five equal splits at 30, 60, 75, 90 and 105 days to obtain higher seed cotton yield and net returns.	Surat, 2011
56	The farmers of South Gujarat zone-II growing irrigated Bt Cotton are advised to adopt deep ploughing (22.5 cm depth) in summer and apply two irrigations i.e. first (80mm) at 25 days after cessation of monsoon and second (60mm) at 50 days after first irrigation for obtaining higher seed cotton yield and net profit.	Surat, 2012
57	The farmers of South Gujarat Agro-climatic Zone-II growing Bt cotton under irrigated conditions are advised to adopt drip irrigation in paired row planting (60 x 45 x 180 cm) and schedule irrigation at 0.8 PEF. Further, they are advised to apply 180 kg N/ha (75% RDN) in 6 equal splits at 15 days interval starting from 15 DAS through drip system to obtain higher seed cotton yield and net profit besides with saving of irrigation water by 20% and nitrogen by 25%. System details: Main line: 75 mm, Sub main line: 63 mm, Lateral (inline): 16 mm, Lateral spacing: 240 cm, Dripper: 4 lph, Dripper spacing: 45 cm, Operating pressure: 1.2 kg/cm <sup>2</sup> , Operating frequency: Alternate day and Operating time: 70-85 minutes	Surat, 2012
58	The farmers of South Gujarat Agroclimatic zone-II growing rainfed Cotton (GN Cot-25) are advised to follow spacing of 120 x 45 cm with application of 80 kg N/ha for getting higher seed cotton yield and net profit. The nitrogen should be applied in two splits i. e. 50 % as basal and 50 % at 1 and nths after sowing.	Bharuch, 2012
59	Farmers of South Gujarat Agro-climatic zone-II (AES 2) growing Bt cotton (RCH 2 BG-II) are advised to apply recommended dose of fertilizer based on soil test value + FYM 10 t/ha + one spray of 2% urea at flowering stage and one spray of 1% urea + 1% MgSO <sub>4</sub> during boll development stage to control leaf reddening and for obtaining higher seed cotton yield and net profit.	Surat 2013
60	Farmers of South Gujarat Zone II are recommended to grow summer green gram with recommended package of practices as preceding crop of Bt cotton hybrid. They should apply 2% banana pseudostem enriched sap (20 ml/ liter) as foliar spray at flowering stage with recommended dose of fertilizers (240 kg N + 40 kg P <sub>2</sub> O <sub>5</sub> per ha) to achieve higher seed cotton equivalent yield and net realization. For cotton, 40 kg P <sub>2</sub> O <sub>5</sub> as basal and 240 kg N applied in 5 equal splits at 30,60, 75, 90 and 105 days after sowing as top dressing.	MCRS, Surat 2017-18
61	Farmers of South Gujarat Agro-climatic zone-II growing rainfed <i>hirsutum</i> cotton GN Cot. 26 (GBHV-170) are recommended to follow spacing of 120 cm x 45 cm with application of 150 kg N/ha for getting higher seed cotton yield and net realization. Nitrogen should be applied in two equal splits i.e., 50 % as basal and 50 % at 30-40 days after sowing.	RCRS, Bharuch 2017-18
62	The farmers of South Gujarat Agro-Climatic Zone growing rainfed <i>hirsutum</i> cotton (GN Cot. 26) are recommended to follow spacing of 120 cm x 45 cm with application of 150 kg N/ha for getting higher seed cotton yield and net profit. Nitrogen should be applied in two equal splits i.e., 50 % as basal and 50 % at 30-40 days after sowing.	

63	Hirsutum cotton (variety: G. Cot. 16) growing farmers of South Gujarat Agro Climatic Zone II are recommended to adopt High Density Planting System by sowing the crop at 45 cm x 20 cm or 60 cm x 20 cm spacing for obtaining higher seed cotton yield (kg/ha) and Net Profit (Rs./ha). Mepiquat chloride spray was not found effective in increasing seed cotton yield.	Surat
64	The <i>Bt</i> cotton hybrid growing farmers of South Gujarat Agro-Climatic Zone –II can effectively adopt site specific soil test value based fertilizer recommendation (N, P and K) alone or in combination with either 5 or 10 tonnes FYM /ha for achieving desired targeted yields of seed cotton. The soil test based fertilizer recommendation (kg/ha) for achieving different yield targets (kg/ha) for cotton crop is given here.	Surat
65	Farmers of South Gujarat heavy rainfall zone II growing <i>Bt</i> Cotton hybrid are recommended to apply sulphur @ 60 kg per hectare through 250 kg phospho-gypsum/ha. along with recommended dose of P <sub>2</sub> O <sub>5</sub> (40 kg/ha) in form of single super phosphate (250 kg/ha) as basal dose and bio compost @ 5 tones/ ha at the time of land preparation and 240 kg nitrogen/ha in five equal splits (each of 48 kg N/ha) at 30, 60, 75, 90 and 105 days after sowing for achieving higher seed cotton yield and net income.	Surat
66	Farmers growing Arborium cotton (Desi) under rainfed condition are recommended to sow the crop at 60 x 15 cm spacing in South Gujarat heavy rainfall zone and 60 x 30 cm spacing in South Gujarat zone and apply 150 kg Nitrogen/ha in two equal splits (75 kg N/ha each) at 30 and 60 days after sowing for achieving higher seed cotton yield and net income.	Surat
67	Effect of nitrogen levels and growth retardants on cotton under HDPS Farmers of South Gujarat growing <i>Bt</i> cotton hybrid with high density planting system under irrigated condition are recommended to sow <i>Bt</i> cotton hybrid GTHH-49 (BG-II) with 60 x 45 cm spacing, apply 300 kg nitrogen/ha in five equal splits (each of 60 kg N/ha) at 30, 60, 75, 90 and 105 days after sowing and spray Mepiquat Chloride 5 % AS @ 37.5 g ai/ha (1.5 ml/ lit of water) at 60 and 75 days after sowing for achieving higher seed cotton yield as well as net monetary returns.	Surat
68	Feasibility of different intercrops in <i>Bt</i> Cotton hybrid (G.Cot.Hy. 8 BG II) Farmers of South Gujarat growing <i>Bt</i> cotton hybrids under irrigated condition are recommended to adopt pair row planting system with 180 cm - 60 cm x 45 cm spacing and grow three rows of vegetable Indian bean as intercrop at 45 x 15 cm spacing between two pairs of <i>Bt</i> cotton hybrid for achieving higher seed cotton equivalent yield and net monetary return.	Surat
69	Effect of land configuration and plant growth regulator on water logging management in cotton Technology Identified / Recommendation for Farmers: Land configuration with ridges and furrow and application of extra 20 kg/ha of nitrogen and potassium after drainage of water logging field out performed the remaining treatments (1974 kg/ha).	Surat
	<b>For scientific community</b>	
66	In South Gujarat (Zone-II), cotton G.Cot.Hy-8 did not response to application of PSM (Phosphate Solubilizing Microorganism)fertilizers.	Surat
67	In South Gujarat Zone (AES-II) for cotton (G.Cot.Hy-8) fodder sorghum (GFS-4) relay cropping sequence, recommended dose of nitrogen should be applied to both the crops. Application of phosphorus is not found advantageous for this sequence.	Surat
68	An application of phosphorus and potash to G.Cot. Hy-10 was not beneficial under rainfed condition.	Surat

## BASIC SCIENCE – PHYSIOLOGY, BIOCHEMISTRY, BIOTECHNOLOGY AND MICROBIOLOGY

Sr. No.	Item	Centre and Year
1	Seed germination (one month after processing) is not affected by picking or position of boll. Other seed quality parameters are not adversely affected by either picking or position of boll. Therefore, it is recommended to the seed producers of American cotton (e.g. G.Cot.10) that all pickings and positions are alike with respect to fulfilling certification standards of germination (65%).	Surat, 1992

2	It is recommended to the cotton growing farmers especially seed producers of desi cotton that seed germination is not affected by either picking or position of boll. Therefore, all picking are alike and can be used for seed purpose.	Surat, 1992
3	Under specific conditions, defoliant like Ethrel 2000 ppm or NaCl 10% solution can be used at 50% boll bursting stage for hastening maturity of crop by about a week. This would also help in getting cleaner kapas.	Surat, 1993
4	Seed producers of desi cotton hybrid G.Cot.DH-9 are advised to give two sprays of 1 mM Sodium benzoate (1.44 g/10 L. @ 400 L/ha) on female parent at the initiation of crossing programme and twenty days later to get higher seed yield (F1) and economic gain (Rs. 11,065/ha) (ICBR 1:300)	Surat, 1991
5	Farmers of South Gujarat growing hybrid cottons (G.Cot.Hy-6 and G.Cot.DH-9) are advised to spray the crop with 30 % or 20 % Methanol at 65 and 85 days of the germination (@ 300 L/ha and 400 L/ha to realize higher yield and better economic returns (Net profit being Rs. 3802 and Rs. 2412 and ICBR being 1:1.51 and 1:1.44, respectively for the two treatments)- Recommendation put in abeyance due to ban on Methanol.	
6	The farmers of south Gujarat growing Bt cotton are advised to spray 45 ppm Ethylene (1.25 ml/10 lit of 39% commercial product) at square initiation stage (35-40 DAS) to obtain high yield and net return of cotton.	Surat, 2011
7	Farmers of South Gujarat growing Bt or conventional cotton hybrids under irrigated conditions are advised to go for detopping at 95 days after sowing followed by nipping of sympodial meristem at 105 DAS to obtain high yield and net returns.	Surat, 2012
8	It is informed to scientific community that the molecules namely butanedioic acid, 2, 6, 10, 14, 18 – pentamethyl – 2, 6, 10, 14, 18 –eicosapentaene and d-ribose increase whereas, octacosane and gluconic acid decrease which may be responsible for jassid resistance in cotton. Further, genotypes with higher phenol, free gossypol, trichome density and length with more leaf thickness whereas, lower reducing sugar and tannin contents should be used for selecting jassid resistant genotypes.	2017-18
9	Farmers of South Gujarat growing Bt cotton (G.Cot.Hy-10 BG-II) under rainfed conditions are recommended to apply four foliar sprays of 2% KNO <sub>3</sub> (13:00:45) (20g/l) at weekly intervals after 30 days of rain cessation for higher seed cotton yield and higher net return	Surat, 2023
10	Farmers of South Gujarat growing compact variety of cotton (GISV-272 and GSHV-180) under high density planting system (HDPS) at 60 x 15 cm spacing are recommended to apply 280 kg nitrogen/hectare in five equal splits at 30, 60, 75, 90, and 105 days after sowing to achieve higher seed cotton yield and higher net return. In addition, it is advised to apply 5% mepiquat chloride at a rate of 20g a.i/hectare (8.5ml/10L) at 60 and 75 days after sowing to control vegetative growth of cotton plants under high density planting system.	Surat, 2023
<b>For scientific community/institution</b>		
8	“Jalashkti” enhanced the germination of cotton seed at low water regimes but did not show any effect on root/shoot development.	Surat, 1991
9	Acid delinting of cotton seed does not improve or advance the germination. Hence it is advised that the practice of acid delinting parent/breeder seed may be discontinued.	Surat, 1990
10	Chemical defoliant thiadizuron @ 50 gm/ha at 50 percent boll bursting stage gave maximum yield of cotton without impairing the quality	Surat, 1991
11	Bollworm incidence in cotton increased with the thickness of rind.	Surat, 1991
12	It is informed to scientific community that the molecules namely Butanedioic acid, 2, 6, 10, 14, 18-Pentamethyl-2, 6, 10, 14, 18-eicosapentaene and d-ribose increase various Octacosane and gluconic acid decrease which may be responsible for jassid resistance in cotton. Further, genotypes with higher phenol, free gossypol, trichome density and length with more leaf thickness whereas lower reducing sugar and tannins contents should be used for selecting jassid resistance genotypes.	2017-18
13	It is informed to scientific community that the WS08- {(G.6 X G.ano) X G.tom} X G.Cot-100, WS07- ALB X G.anomalum, WS05-(G.67 X MOCO)F1 X G.Cot-11, WS25- Large MangoLeaves and WS06- ALB X G.anomalum showed most lowered sucking pest infestation and square damage among the wild entry and cross derivatives selected for analysis. Among these five genotype, {(G.6 X G.ano) X G.tom} X G.Cot-100 showed higher total phenol, tannin and surface wax content at sucking pest infestation. {(G.6 X G.ano) X G.tom} X G.Cot-	Surat, 2020

	100 also showed higher trichome density and hairiness character. While Large Mango Leaves and ALB XG. anomalum showed higher gossypol content at boll worm infestation and hence recommend for further breeding programs.																			
14	It is informed to scientific community that Cotton genotypes GISV-218 and G. Cot-16 are salinity tolerance up to EC 1:2.5 (13.14 ds/m) while G.Cot-10 and G. Cot-100 are Salinity susceptible based on biochemical analysis.	Surat, 2020																		
15	The following transgressive RILs were identified as candidate jassid resistant lines that possess desirable biochemical traits, low jassid count with less jassid injury grade; and higher seed cotton yield than the jassid resistant parent GISV-218. Thus, these potential RILs can be used for the further development of cotton varieties with high yield and jassid resistance.	Surat, 2022																		
	<table border="1"> <thead> <tr> <th>RIL No.</th> <th>Character</th> </tr> </thead> <tbody> <tr> <td>RIL-94, RIL-31, RIL-96, RIL-108</td> <td>Gossypol</td> </tr> <tr> <td>RIL-88, RIL-28, RIL-96, RIL-108, RIL-107, RIL-113</td> <td>Phenol</td> </tr> <tr> <td>RIL-94, RIL-25, RIL-95, RIL-69</td> <td>Reducing sugar</td> </tr> <tr> <td>RIL-94, RIL-31, RIL-6, RIL-24, RIL-25, RIL-69</td> <td>Jassid count</td> </tr> <tr> <td>RIL-94, RIL-88, RIL-31, RIL-28, RIL-24</td> <td>Jassid injury grade</td> </tr> </tbody> </table>	RIL No.	Character	RIL-94, RIL-31, RIL-96, RIL-108	Gossypol	RIL-88, RIL-28, RIL-96, RIL-108, RIL-107, RIL-113	Phenol	RIL-94, RIL-25, RIL-95, RIL-69	Reducing sugar	RIL-94, RIL-31, RIL-6, RIL-24, RIL-25, RIL-69	Jassid count	RIL-94, RIL-88, RIL-31, RIL-28, RIL-24	Jassid injury grade							
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16	It is recommended to scientific community to use the mentioned cotton genotypes for the breeding program to improve respective characters.	Surat, 2022																		
	<table border="1"> <thead> <tr> <th>Genotypes</th> <th>Characters</th> </tr> </thead> <tbody> <tr> <td>G.Cot-100, GISV-218 and G.Cot-10</td> <td>Protein</td> </tr> <tr> <td>G.Cot-10, GSHV-01/1338 and G.Cot-100</td> <td>Gossypol</td> </tr> <tr> <td>G.Cot-16, GISV-218 and Suratj</td> <td>Oil</td> </tr> <tr> <td>LRA-5166, GISV-218 and G.Cot-16</td> <td>Iodine Value</td> </tr> <tr> <td>American Nectariles, Surat Dwarf and G.Cot-10</td> <td>Saponification value</td> </tr> <tr> <td>G.Cot-100, G.Cot-10 and G-67</td> <td>Unsaturated Fatty acid</td> </tr> <tr> <td>LRA-5166, GISV-218 and G.Cot-16</td> <td>Poly Unsaturated fatty acid</td> </tr> <tr> <td>G.Cot-100, BC-68-2 and G-67</td> <td>Mono unsaturated fatty acid</td> </tr> </tbody> </table>	Genotypes	Characters	G.Cot-100, GISV-218 and G.Cot-10	Protein	G.Cot-10, GSHV-01/1338 and G.Cot-100	Gossypol	G.Cot-16, GISV-218 and Suratj	Oil	LRA-5166, GISV-218 and G.Cot-16	Iodine Value	American Nectariles, Surat Dwarf and G.Cot-10	Saponification value	G.Cot-100, G.Cot-10 and G-67	Unsaturated Fatty acid	LRA-5166, GISV-218 and G.Cot-16	Poly Unsaturated fatty acid	G.Cot-100, BC-68-2 and G-67	Mono unsaturated fatty acid	
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17	Bacterial isolates identified as <i>Pseudomonas putida</i> NAU-PP-2 and <i>Bacillus licheniformis</i> NAU-PP-9 at $1 \times 10^8$ CFU/ml were recorded with Carboxymethyl cellulase activity ( $\mu\text{mol}/\text{min}/\text{ml}$ ) of 1.196 and 1.511, Filter paper cellulase activity ( $\mu\text{mol}/\text{min}/\text{ml}$ ) of 0.1897 and 0.1888, cotton stalk weight loss (%) of 20.80 and 16.94 and moisture content (%) of 62.34 and 65.35, respectively during cotton stalk degradation study.	Surat, 2023																		

### ENTOMOLOGY

Sr. No.	Recommendations	Centre and Year
1.	<p>i) All the synthetic pyrethroids were found effective for control of bollworms and hence they are recommended at the following concentration.</p> <ol style="list-style-type: none"> <li>1) Cypermethrin @ 90 ppm i.e. 0.009 % concentration</li> <li>2) Fenvalerate @ 150 ppm i.e. 0.015 % concentration</li> <li>3) Decamethrin @ 12.5 ppm i.e. 0.00125 % concentration</li> <li>4) Permethrin @ 150 ppm i.e. 0.015 % concentration</li> </ol> <p>ii) Considering the side effects and economics limited use of the synthetic pyrethroids is recommended. Synthetic pyrethroids should be sprayed twice at 15-20 days interval at the peak flowering stage. If 2<sup>nd</sup> flush of cotton is to be taken, the same should be sprayed twice at second flush also. The remaining sprays should be carried out by using conventional insecticides.</p> <p>iii) Foliar application of Nitrogen in the form of Urea 2% solution at each insecticidal spray is recommended. This can be mixed with the insecticides.</p> <p>iv) When synthetic pyrethroid are used continuously, there is possibility of increasing the attack of pests, viz. mites, mealy bugs, aphids and alternaria disease. Then synthetic pyrethroids are used twice at peak flowering period as a part of spraying with other conventional insecticides programme if these pests/disease become severe, suitable insecticide/fungicide should be sprayed at proper time.</p>	Surat, 1981-82
2.	For Hybrid-4 cotton, the control of bollworm when the population reaches the threshold of 10 LU per 20 plants is found profitable and hence the threshold of 10 LU per 20 plants for spotted bollworms is recommended for South Gujarat Area.	Surat, 1983-84

3.	The synthetic pyrethroids of different groups are recommended for the control of bollworms of cotton at the following rates. 1) Cypermethrin EC @ 50 grams ai/ha 2) Decamethrin EC @ 15 grams ai/ha 3) Decamethrin @ 12.5 ppm i.e. 0.00125 % concentration 4) Permethrin @ 150 mm i.e. 0.015 % concentration	Surat, 1983-84																																																
4.	At present 10 LU per 20 plants (spaced at 120 x 60 cm) is observed to be an economic threshold for spotted bollworms. In order to avoid the cumbersome method for working out the larval units where proper and competent technical help is not available such as when the threshold is to be worked out by more or less illiterate cultivator 20 larvae per 20 plants i.e. one larvae per plant irrespective of size of the larvae can be recommended as an economic threshold value for spotted bollworms for hybrid cotton in South Gujarat area.	Surat, 1983-84																																																
5.	In addition to previous recommendations i.e. 10 LU/20 plants, 10 LU/10 Sq.mt. area is recommended for the control of spotted bollworms on hybrid cotton.	Surat, 1984-85																																																
6.	From the results of the trials conducted for three years, it is recommended that for the control of bollworms if  (i) Sufficient finances are available in order to get higher yield and higher net profit, the synthetic pyrethroids should be used only twice at peak flowering period for each flush at following concentrations. The other sprays should be carried out with conventional insecticides.  <table border="1"> <thead> <tr> <th>Name of Synthetic Pyrethroid</th> <th>Concentration %</th> <th>Cost of Treatment</th> <th>Profit (Rs/ha)</th> </tr> </thead> <tbody> <tr> <td>1. Fenvalerate</td> <td>0.015</td> <td>2105</td> <td>5105</td> </tr> <tr> <td>2. Decamethrin</td> <td>0.00015</td> <td>2375</td> <td>4711</td> </tr> <tr> <td>3. Cypermethrin</td> <td>0.009</td> <td>2366</td> <td>6434</td> </tr> </tbody> </table> (ii) In the situation where there is a need for less investment on pesticidal use and for getting higher I.C.B.R., it is recommended that synthetic pyrethroids should be used only twice at peak flowering period for each flush at the following concentrations. The other sprays should be carried out with conventional insecticides. <table border="1"> <thead> <tr> <th>Name of Syn.</th> <th>Concentration</th> <th>Cost of Treatment</th> <th>Proft</th> <th>I.C.B.R.</th> <th>Pyrethroids %</th> <th>Rs/ha</th> <th>Rs/ha</th> </tr> </thead> <tbody> <tr> <td>01. Fenvalerate</td> <td>0.005</td> <td>883</td> <td>4182</td> <td>1:4.74</td> <td></td> <td></td> <td></td> </tr> <tr> <td>02. Decamethrin</td> <td>0.00075</td> <td>1029</td> <td>3591</td> <td>1:3.</td> <td></td> <td></td> <td></td> </tr> <tr> <td>03. Cypermethrin</td> <td>0.003</td> <td>973</td> <td>5546</td> <td>1:5.70</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Name of Synthetic Pyrethroid	Concentration %	Cost of Treatment	Profit (Rs/ha)	1. Fenvalerate	0.015	2105	5105	2. Decamethrin	0.00015	2375	4711	3. Cypermethrin	0.009	2366	6434	Name of Syn.	Concentration	Cost of Treatment	Proft	I.C.B.R.	Pyrethroids %	Rs/ha	Rs/ha	01. Fenvalerate	0.005	883	4182	1:4.74				02. Decamethrin	0.00075	1029	3591	1:3.				03. Cypermethrin	0.003	973	5546	1:5.70				Surat, 1986-87
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7.	For the effective control of bollworm in hybrid cotton the release of egg larval parasite viz. Chelonusblackburni at 10 to 12 thousand per hectare to be released at 4 to 5 instalments per cotton season, supplementing with the use of insecticides at ETL should be recommended.	Surat, 1988-89																																																
8.	Based on economics, triazophos @ 0.75 Kg ai/ha (ICBR 1:5.88) is recommended for the control of whitefly in cotton under South Gujarat conditions.	Surat, 1992-93																																																
9.	Alphamethrin @ 25g ai/ha (ICBR 1:4.43) is recommended for the control of bollworm under South Gujarat conditions. Considering the side effect of synthetic pyrethroids only two sprays alternated with conventional insecticides are recommended at peak flowering stage of cotton.	Surat, 1993-94																																																
10.	For effective and economical pest management in hybrid cotton, following Integrated Pest Management programme is recommended for South Gujarat condition. a) Release of Trichogramma between 45-110 days @ 2.5 lakhs/ha at weekly intervals depending upon the bollworm incidence. b) Release of Chrysopa @ 10,000/ha thrice in a season. c) Release of Chelonus @ 10,000/ha thrice in a season. d) Application of HNPV 450 LE/ha for Heliothis and SNPV @ 250 LE/ha for spodoptera e) Application of neem product viz., Margocide 'OK' 3.0 l/ha for sucking pests and Margocide 'CK' 3.0 l/ha and Achook 1.5 Kg/ha for bollworms f) Application of Endosulfan @ 875 g ai/ha g) Application of Fenvalerate @ 75 g ai/ha h) Application of Chlorpyrifos @ 750 g ai/ha i) Collection & destruction of flared squares & grown up caterpillars	Surat, 1994-95																																																

	Note : (1) From treatment d to h application of insecticides should be used when ETL crossed (2) Treatment should be given alternatively.	
11.	Considering the economics of different treatments the following recommendation is suggested for the IPM programme of cotton pests (ICBR 1:2.34). i) Blanket application of Methyl-O-demeton @ 0.03% during early season i.e. upto 40 days after germination. i. Three releases of Chrysopa larvae @ 10,000/ha synchronizing from first release with the appearance of the pests. ii. Five to six releases of Trichogramma @ 2.5 lakh/ha between 45-100 days synchronizing with the appearance of the pests and depending upon the pest pressure. ii) Application of HNPV @ 450 LE/ha for <u>Heliothis</u> and SNPV @ 250 LE/ha for <u>Spodeptera</u> iii) Application of Neem based pesticides @ 2-3 l/ha iv) Need based application of Monocrotophos 0.04% or Endosulfan 0.07 % or Quinalphos 0.05% or Profenphos 0.05% or Chlorpyrifos 0.05 % alternatively at ETL v) Collection and destruction of flared squares, buds, green bolls, egg masses and grown up larvae to manage the bollworms of cotton effectively and economically.	Surat, 1996-97
12	For the effective and economic control of bollworms in Hybrids-6 cotton application of any of any of the following insecticides are recommended as and when the insect pest crosses the ETL under South Gujarat conditions. i) Endosulfan 35EC @ 875 g ai/ha (ICBR 1:4.90) ii) Profenphos 50EC @ 1.0 Kg ai/ha (ICBR 1:2.82) iii) Quinalphos 20AF @ 2.5 l/ha (ICBR 1:2.71)	Surat, 1997-98
13	On the basis of efficacy of insecticides, yield and economics it is recommended that for effective control of bollworms any of the following insecticides is to be applied as and when pest crosses the ETL under South Gujarat conditions. i) Cypermethrin 10 EC @ 0.5 l/ha (ICBR 1:4.10) ii) Polytrin C 44 EC @ 1.0 l/ha (ICBR 1:2.93)	Surat, 1997-98
14.	Based on the efficacy and economics the following IPM strategy is recommended for the pest complex of cotton (Hybrid-6) under South Gujarat condition (ICBR 1:3.84) i. One to two blanket application(s) of methyl o demethon 0.03% during early season i.e. upto 40 days of germination as and when necessary ii. Two to three releases of Chryoperla larvae @ 10,000/ha/week synchronizing first release with the appearance of the pests and subsequent releases depending upon the pest pressure on ETL values iii. Three to five releases of Trichogramma chilonis @ 2.5 lakh/ha between 45-100 days synchronizing the first release with the appearance of the pest. The subsequent releases should based on bollworm population pressure. iv. Need based application of NPV @ 450 LU/ha for H.armigera and @ 250 LU/ha for <u>Spodepteralitura</u> v. Application of NSKS 5% as and when the pest crosses ETL vi. Need base applications of Monocrotophos 0.4% or Endosulphan 0.07% or Quinalphos 0.05% or Fenvalerate 0.0012% alternately.	Hansot, 1998-99
15	Considering the efficacy and economics following IPM practices for bollworm is recommended for farmers of South Gujarat growing G.Cot.Hy-8 cotton under rainfed conditions. a. Blanket application of Methyl-o-demeton 25 EC @ 0.03% during initial crop growth stage i.e. upto 40 DAG. b. Two release of Chrysopa (2.3 days old larvae) @ 10,000/ha at weekly interval synchronizing the first release with the appearance of pests. c. Three release of Trichogramma chilonis @ 2.5 lakh/ha between 45 to 110 days synchronizing the first release with the appearance of pests and depending upon the pest pressure. d. Application of HNPV @ 450 LU per ha for Heliothis and SNPV @ 250 LU per ha for Spodoptera, when maximum population of heliothis and spodoptera Observed, respectively. e. Application of Neem based pesticides @ 2.5 lit. per ha. f. Need based application of Endosulfan 35 EC @ 2.5 lit/ha or Quinalphos 20EC @ 2.5 lit/ha or Fenvalerate 20 EC @ 500ml/ha alternatively at ETL.	Bharuch, 1999- 2000

	g. Collection and destruction of flaired squares, buds, greenbolls, egg masses and infected shoots with long grownup larvae of <i>Heliothis</i> (ICBR 1:2.65).	
16	Farmers of South Gujarat growing cotton (G.Cot.Hy-10) under rainfed condition are advised to spray recommended insecticides by considering the economic threshold level (ETL) of 5% damage to fruiting dabs by bollworms (ICBR : 1:3.38)	Bharuch, 1999-2000
17	Based on results of different modules tested for three years for the control of pests of cotton under South Gujarat Agro-climatic conditions (Zone-II), the following IPM module is recommended. a) Seed treatment with Imidachlorpid @ 10 g/Kg seeds for the control of sucking pests b) Two releases of <i>Chrysoperla</i> @ 10,000 eggs seeds for the control of sucking pests as well as <i>H.armigera</i> . c) Spraying of Neem formulation (Nimark) for the control of sucking pests as well as bollworms on ETL base. d) Spraying of Endosulfan 0.07% or quinalphos 0.05% or chlorpyrifos 0.05% for the control of bollworms as and when required e) Five releases of <i>Trichogramma</i> @ 1.5 lakh/ha synchronizing with the appearance of bollworms and their population pressure f) Spraying of Cypermethrin @ 0.5 l/ha or Polytrin C @ 1.0 l/ha or fenvalerate 0.5 l/ha for bollworm control on need base. g) One spraying of HNPV @ 450 LE/ha and SNPV @ 250 LE/ha for the control of <i>Heliocoverpa</i> and Spodeptera, respectively as and when required. h) Collection and destruction of eggs and larvae of Spodeptera and <i>Heliothis</i> i) Installation of pheromone traps @ 5/ha each for <i>Heliothis</i> and Spodoptera (ICBR, 1:2.22)	Surat, 2000-01
18.	Seed treatment with any of the following insecticides is recommended for the control of sucking pests viz; aphid ( <i>A.gossypii</i> ), jassid ( <i>A.bijuttullabijuttla</i> ) and thrip ( <i>Thrips tabaci</i> ) intensity hybrid cotton (G.Cot.Hy.10) grown under South Gujarat Agroclimatic zone a) Thiamethoxam 70WS @ 2.8 g/Kg seed b) Imidachlorpid 70FS @ 7.5 g/Kg seed c) Imidachlorpid 600FS @ 9 ml/kg seed	Surat, 2001-02
19.	Application of spinosad-48 SC (a molecule derived from a new species of Actinomycetes, <i>Saccharopolyspora Spinosa</i> Characterized as bacteria) @ 75 g a.i./ ha (ICBR 1:8.5) or Betacyfluthrin 2.5 EC @ 18 g a.i./ ha (ICBR 1: 8.82) or Novaluron 10 EC (Insect Growth Regulator) @ 100 g a.i. / ha (ICBR 1:1.71) on ETL base (5% boll damage) is recommended for the control of bollworms attacking G.Cot.Hy. 10 cotton in South Gujarat Agroclimatic Zone.	Surat, 2001-02
20.	For the effective and economical control of Pink Bollworm in G.Cot Hy-10 cotton following insecticides are recommended. Decis tablet 25% 10 g.a.i./ha 20 tablets Betacyfluthrin 2.5 EC 18 g.a.i./ha Spinosad 48 SC 50 g.a.i./ha	2004-05
21.	Farmers of South Gujarat Agro climatic condition (Zone-II) growing G.Cot.Hy.10 are advised for extended sprays against pink bollworm when trap catches crossed the threshold of 8 male moths/trap for three consecutive nights which aids in reducing its incidence and damage.	Surat, 2010
22.	For effective management of Mealybug <i>Phenacoccusolenopsis</i> (Tinsley), cotton growing farmers of South Gujarat are advised to use Imidachlorpid 70 WG @ 0.00375 % (0.53 g / 10 lit. water) or Acetamiprid 20 SP @ 0.004% (2g/ 10 lit. water) or Acetamiprid 20 SP + Chlorpyrifos 20 EC @ 0.004% + 0.05% (2 g + 25 ml /10 lit. water) at 15 days interval starting from initiation of incidence of pest for higher yield and better returns.	Surat, 2010
23.	The farmers of Gujarat growing <i>Bt</i> cotton are recommended to apply any one of the following insecticides alternatively, first spray at 75 days after sowing and second at 15 days of first spray for effective management of pink bollworm. 1. Indoxacarb 15.8 EC, 0.0079% (5 ml/ 10 litre of water) 2. Emamectin benzoate 5 SG, 0.0025 % (5 g/10 litre of water) 3. Spinosad 45 SC, 0.014% (3 ml/10 litre of water)	Surat, 2016-17
24.	Farmers of South Gujarat cultivating <i>Bt</i> cotton are recommended to adopt following effective and economic IPM module for management of pink bollworm as well as sucking pests (thrips, leafhopper, aphid and whitefly). <b>IPM Module for cotton pests</b>	Surat 2020-21

	<ol style="list-style-type: none"> <li>1. Timely sowing of the crop (15<sup>th</sup> June to 15<sup>th</sup> July of the year)</li> <li>2. Installation of yellow sticky trap @ 20 traps/ha at 30 DAS</li> <li>3. Stem application of flonicamid 50 WG @ 60 g/ha each at 30, 45 and 60 DAS</li> <li>4. Installation of Phero-sensor TM-SP trap @ 5 traps/ha at 45 DAS and change the Pectino-lure thrice at 40 days interval having viability of 30-40 days</li> <li>5. Spraying of Azadirachtin 1500 PPM @ 2.5 lit/ha at 60 DAS (50 ml/10 lit. of water at spray volume of 500 lit/ha)</li> <li>6. Three inundative release of egg parasitoid, <i>Trichogrammatoidaebactrae</i> @ 1.5 lakh/ha at weekly interval initiating 7 days after application of neem insecticide</li> <li>7. ETL (10% fruiting body damage) based application of recommended insecticides (Indoxacarb 14.5 SC @ 5 ml/ 10 lit. or Emamectin benzoate 5 SG @ 5 g/10 lit. or Spinosad 45 SC @ 3 ml/10 lit.)</li> <li>8. Timely termination of crop (By January 15<sup>th</sup> of the year)</li> </ol>	
25	Cotton farmers of Gujarat cultivating <i>Bt</i> cotton are recommended to apply, thiodicarb 75 WP @ 0.15% (20 g/10 lit. of water) at 60 days after sowing, chlorpyrifos 20 EC @ 0.05% (25 ml/10 lit. of water) at 90 days after sowing and lambda-cyhalothrin 5 EC @ 0.005% (10 ml/10 lit. of water) at 120 days after sowing to avoid the yield loss of 48.86% from pink bollworm in cotton.	Surat 2020-21
26	Evaluation of different insecticides against sucking pests in <i>Bt</i> cotton Farmers of Gujarat cultivating <i>Bt</i> cotton are recommended to spray flonicamid 50 WG at 0.015% (3 g/10 litre water) at initiation of any sucking pests (Aphid, leafhopper, thrips and mealybug) and subsequent two sprays at 15 days interval from first spray for effective and economical management.	Surat 2023-24
27	<b>Evaluation of different modules against pink bollworm in <i>Bt</i> cotton</b> Farmers of South Gujarat cultivating <i>Bt</i> cotton are recommended to apply a small pea seed sized dollops of Gossyplure 4% RTU paste tree times at 5 m plant to plant distance in alternate rows (approximately 800 plants/ ha, 200 – 250 g/ ha) on primary branch axis (below 3-4 inches from tip) for management of pink bollworm. This paste should be applied at 45, 75 and 105 days after sowing (DAS)	Surat 2024-25
<b>For Scientific community</b>		
25	For the control of bollworms of cotton the insecticides can be sprayed either on concentration basis with hand compression sprayer or knapsack sprayer, or on active ingredients basis with any types of sprayer under South Gujarat condition.	1992-93
26	For effective and economical control of sucking pests viz., aphid ( <i>A. gossypii</i> ), jassids ( <i>A. biguttulabigutulla</i> ) and thrips ( <i>Thrips tabaci</i> ) infesting hybrid cotton G.Cot.Hy-10 grown under South Gujarat Agroclimatic Zone–II, need based application of any of the following insecticides are recommended <ol style="list-style-type: none"> <li>1. Imidachloprid 200 ml 20 g ai/ha 1:8.43 ICBR</li> <li>2. Acetamiprid 20 sp 10 g ai/ha 1:7.31 ICBR</li> <li>3. Thiomethoxam 25WG 25 g ai/ha 1:5.24 ICBR</li> </ol>	Surat, 2002-03
27	For the control of effective and economical control of cotton pink bollworm in Hybrid Cotton G.Cot.Hy.10, application of Spinosad 45 SC @ 580 g a.i./ ha (100 ml/ha), CBR 1:3.58 (Additional benefit of safer insecticide) or Deltamethrin tablet 25% @ 10 g a.i. / ha (20 tablets / ha each of 2.0 g weight), CBR 1:10.38 or betacyfluthrin 2.5 SC @ 18 g a.i. / ha (720 ml/ ha), CBR 1: 6.10 at 10 days interval starting from incidence of pink bollworm are recommended under South Gujarat Agro climatic condition.	Surat, 2005-06
28	Cotton genotypes/varieties of <i>Gossypium hirsutum</i> viz., GSHV 159, GBHV 170, 177, 180, 183 and NH 615 were found moderately resistant to jassids. However, GSHV 159 and GBHV 170 were found resistant to aphids and thrips. GBHV 180 was found resistant to thrips whereas, GBHV 183 was found resistant to whitefly and mealybug under rainfed conditions.	Bharuch & Surat, 2016-17
29	Fourteen cotton genotypes/varieties of <i>Gossypium arboreum</i> viz., GBav 106, 107, 111, 123, 124, 125, 128, 131, 133, 135, 136, 137, 138 and G. Cot. 19 were found moderately resistant to jassids under rainfed conditions. GBav 128 was found resistant against aphid, thrips and whitefly, whereas GBav 124 was found moderately resistant against mealybug. GBav 135 was found resistant to aphids and thrips. However, GBav 111 and 135 were found resistant to mealybug, while moderately resistant to whitefly. GBav 138 was found resistant to whitefly and Mealybug	Bharuch & Surat, 2016-17
30	Survey for assessment of losses due to mealybug infestations in the cotton fields of farmers. The	Surat,

	loss due to mealybug infestation in cotton (based on 4-grade infested plants) was estimated to be 1.07 (0.00 to 2.97) per cent and the natural parasitism of <i>Aenasius bambawalei</i> Hayat was 8.55 (4.73 to 14.93) per cent under farmers' management practices in 21 surveyed villages of Surat and Bharuch district.	2017-18
31	Survey for assessment of losses due to pink bollworm infestations in the cotton fields of farmers' The quantitative loss due to pink bollworm infestation was estimated to be 2.14 (0.88 to 3.61) per cent under farmers' practices of 274 cotton fields in 21 surveyed villages of Surat and Bharuch district during 2015-16 to 2017-18.	Surat, 2017-18
32	Five varieties/genotypes of <i>Gossypium hirsutum</i> cotton viz., NH-615, GBHV-201, GBHV-209, GBHV-204 and G.N.Cot-26 were found moderately resistant to jassids under rainfed conditions. The GBHV-204 as resistant whereas GBHV-206, GBHV-201 and Suraj were found moderately resistant to whitefly. Six cotton varieties/genotypes viz., GBHV-204, GBHV-209, G.N.Cot-26, GBHV-206, GBHV-201 and NH-615 were found moderately resistant to bollworms under rainfed conditions.	Bharuch, 2020-21
33	Investigation on pre mature dropping of reproductive parts of cotton due to biotic stress Natural shredding of cotton square, flower and green bolls was 13.01, 2.93 and 1.17 per cent, respectively. Dropping of premature squares, flower and green bolls due to pink bollworm was 2.10, 3.06 and 1.05 per cent and due to boll rot was 0.85, 2.84 and 3.26 per cent, respectively. The proportion of natural shredding <i>vis-a-vis</i> premature dropping due to biotic stress (pink bollworm and rotting) was 60:40. The boll rot pathogens associated were <i>Xanthomonas</i> , <i>Alternaria</i> , <i>Penicillium</i> , <i>Rhizopus</i> , <i>Aspergillus</i> , <i>Curvularia</i> and <i>Capnodium</i> .	Surat 2024-25

### PLANT PATHOLOGY

Sr. No.	Item	Centre and Year
1	Delinting with sulphuric acid @ 100 ml/kg seed and seed dressing with mercuric fungicide @ 2-3 g/kg of seed has been recommended to control seed borne diseases of cotton.	Surat, 1971
2	Streptocycline @ 0.005% + Copper oxychloride 0.2% spray has been recommended for the control of bacterial blight disease of cotton.	Surat, 1983
3	Following cultural practices like long term crop rotation, balanced application of NPK, organic manure, mixed cropping of Math and Urid, irrigation at short intervals, green manuring and destruction of infected debris have been found beneficial for reducing the intensity of soil borne diseases like wilt and root rot of cotton.	Surat, 1984
4	Studies on estimation of yield losses by bacterial blight in cotton proved that under natural condition it causes loss in yield upto 13% as against 35% under artificial inoculation condition irrespective of varieties.	Surat, 1990
5	Farmers of Middle Gujarat growing cotton are recommended to follow seed treatment with commercially available biocontrol agent <i>Trichoderma viride</i> @ 5 g/kg seed (CBR 1: 1734 and Net profit Rs. 6932/ha) for safer, effective and economical management of root rot disease of cotton.	Surat, 2002
6	Cotton growing farmers of South Gujarat Zone-II are advised to follow seed treatment with bio control agent <i>Pseudomonas fluorescens</i> (Pf1) @ 10 g/kg seed + three foliar sprays of <i>Pseudomonas fluorescens</i> (Pf1) 0.2% (20 g / 10 liter) at 30 days interval starting from 30 days after sowing for effective and economical management of bacterial blight disease of cotton.	Surat, 2010
7	Cotton growing farmers of South Gujarat region are advised seed treatment with <i>Pseudomonas fluorescens</i> (2 x 10 <sup>8</sup> cfu/g) @ 10 g/kg seed, soil application of <i>Trichoderma viride</i> (2 x 10 <sup>6</sup> cfu/g) @ 2.5 kg/ha in 250 kg of vermicompost and two sprays of kresoxim methyl @ 0.0443 % followed by copper oxychloride (0.2 %) + streptocycline (0.01 %) first at the initiation of the disease and second at 15 days after first spray for effective management of bacterial leaf blight and alternaria leaf spot diseases of cotton.	Surat 2018-19
8	Cotton growing farmers are advised the following Integrated Disease Management module (IDM) for the management of Bacterial leaf blight (BLB) and <i>Alternaria</i> leaf spot (ALS) diseases of cotton, seed treatment, soil application and two sprays first at the initiation of the disease and second at 15 days after first spray is effectively manage the diseases and increasing the cotton seed yield. <b>IDM Module</b>	Guntur, 2019



	1. Seed treatment with <i>Pseudomonas fluorescence</i> (2 x 10 <sup>8</sup> cfu/g) @ 10 g/kg seed. 2. Soil application of <i>Trichoderma viride</i> (2x 10 <sup>6</sup> cfu/g) @ 2.5 kg/ha in 250 kg of vermicompost. 3. Foliar spray Kresoxim methyl @ 1ml/ lit followed by COC (0.2 %)+Streptocycline(0.01%).	
9	Evaluation of efficacy of bioagents against cotton diseases For management of Alternaria leaf blight among all the treatments combined application of <i>Bacillus tequilensis</i> + <i>Bacillus aryabhatai</i> as a seed treatment (10 <sup>6</sup> cfu/g @ 10g per kg) and soil application @ 2.5 kg/ha in 250 kg/ha vermicompost (at 30 & 60 DAS) and foliar application of Pyraclostrobin @ 0.1% and for bacterial leaf blight, Soil Treatment (ST) + Soil Application (SA) of <i>PF</i> CICR: SA – 10 <sup>8</sup> cfu/g @10g per kg and @ 2.5 kg/ha (at 30 & 60 DAS) were found effective	Coimbatore 2022
10	Cotton growing farmers of South Gujarat are recommended to follow the seed treatment of <i>Pseudomonas florescence</i> 0.5% WP (10 <sup>8</sup> cfu/g) 10g per kg of seeds before sowing and two applications of <i>Pseudomonas fluorescens</i> 0.5% WP (10 <sup>8</sup> cfu/g) 2.5 kg/ha mixed in 250 kg of vermicompost at 30 and 60 days after sowing for the effective and economical management of bacterial leaf blight.	Surat 2023
11	Evaluation of different fungicides against boll rot and foliar disease of cotton (AGRESCO, 2024). Cotton growing farmers of South Gujarat are recommended to apply two sprays of fluxapyroxad 167 g/ L + pyraclostrobin 333 g/ L SC @ 6ml/ 10L or metiram 55% + pyraclostrobin 5% WG @ 30g/ 10L of water for effective management of boll rot disease. First spray should be given at the initiation of disease and second spray after the 15 days for the first spray.	Surat 2024
12	Management of boll rot and foliar diseases of Cotton through CIB&RC recommended new chemical pesticides and their Combinations recommended chemicals evaluated as a spray application for the management of boll rot at Surat (AICRP, Nagpur, 2024). Boll rot- Fluxapyroxad 167 g/Litre + Pyraclostrobin 333 g/Litre SC @ 0.6 g/L, Metiram 55% + Pyraclostrobin 5% WG @ 2 g/litre of water.	
<b>For scientific community</b>		
9	Soil amendment with farm yard manure @ 20 t/ha or pressmud 2 t/ha or decomposed poultry manure 2 t/ha is effective for economical management of root rot disease of cotton.	Surat, 1999
10	Bacterial blight incited by <i>Xanthomonas campestris</i> pv. <i>Malvacearum</i> of cotton causes 11.95, 11.14 and 9.26% avoidable loss in seed cotton yield of cultivars LRA-5166, G.Cot.HY-10 and BC-68-2, respectively.	Surat, 2000
11	For the management of Alternaria leaf spot disease in cotton following module was found effective. Seed treatment with <i>Pseudomonas fluorescens</i> CICR (2 x 10 <sup>8</sup> cfu/g) @ 10 g/kg seed + soil application of <i>Trichoderma viride</i> TNAU1 (2 x 10 <sup>6</sup> cfu/g) @ 2.5 kg/ha in 250 kg of vermicompost and sprays of kresoxim methyl (0.0443%), followed by captan + hexaconazole @ 1.5 g/l for fungal diseases first at the initiation of the disease and second at 15 days.	Surat, 2019
12	GBHV 209 proved as most promising entry as it showed disease free and resistant against Alternaria leaf spot and bacterial leaf blight, respectively. Promising and most common <i>Gossypium hirsutum</i> entries viz., GBHV 186, GBHV 201 and GBHV 204 were found resistant against Alternaria leaf spot and bacterial leaf blight. Biochemical analysis also revealed the correlation of constitutes viz., chlorophyll, phenol and total soluble sugar with diseases as it shows the differences in the amount of disease free, resistant and susceptible entries and varieties.	Surat, 2020-21
13	Investigation on pre mature dropping of reproductive parts of cotton due to biotic stress (AGRESCO, 2024) In fixed plot survey, natural dropping of fruiting bodies in <i>B</i> cotton was found critical in October II to November II fortnight. There were significant positive correlations of square dropping with minimum temperature (15.60 to 26.83 0C) and morning relative humidity (59.00 to 97.67%) whereas flower dropping showed significant positive correlation with sunshine (1.20 to 7.13 hrs). The dropping of green bolls showed significant positive correlations with maximum temperature (26.43 to 35.83 0C) and sunshine (1.20 to 7.13 hrs). Natural dropping was 13.49, 5.08 and 1.70 per cent whereas pre-mature dropping due to pink bollworm was 2.88, 4.20 and 1.32 per cent and due to disease (rotting) was 1.07, 1.70 and 0.71 per cent in form of squares, flowers and green bolls, respectively. Further, the dropping due to rotting in association with pink bollworm and secondary infestation was observed to be 1.59 and 0.51 per cent.	Surat
14	In roving survey on farmers fields, the pre-mature dropping of square, flowers and green	Surat

	<p>bolls was 2.10, 3.06 and 1.05 per cent due to pink bollworm; 0.85, 2.84 and 3.26 per cent due to rotting with or without association of pink bollworm and secondary infestation as against natural dropping 13.01, 2.93 and 1.17 per cent, respectively. The proportion of premature dropping vis-à-vis natural dropping was estimated approximately as 40:60 per cent. The premature dropping was associated with pink bollworm infestation alone, rotting caused by microbes or rotting associated with or without pink bollworm or secondary infestation.</p>	
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**PLANT BREEDING**

<b>Sr. No.</b>	<b>Item</b>	<b>Centre and Year</b>
1	<p>The <i>Desi</i> cotton variety GN.Cot.27 (Surti Sonu) recorded 1264 kg/ha average seed cotton yield which is 27.2 and 22.8 % higher than checks G.Cot.23 and GN.Cot.25, respectively under rainfed condition of South Gujarat. It exhibited 433 kg/ha average lint yield and 34.4 % average ginning out turn. The variety showed disease free reaction against Wilt, Alternaria leaf spot as well as Bacterial leaf blight diseases. The proposed variety recorded below ETL population of sucking pests. The bollworms damage is also found low and comparable to checks. Thus, the <i>herbaceum</i> cotton variety GN.Cot.27 (Surti Sonu) is recommended for cultivation under rainfed areas of South Gujarat.</p>	Surat, 2020-21



**RECOMMENDED INSECTICIDES /FUNGICIDES/WEEDICIDES/GROWTH REGULATORS AS PER CIB REGISTRATION**

<b>A. INSECTICIDES</b>							
Year	Crop	Pest	Pesticide/formulation (I/F/H/N/R/PR)*	Application (Conc. or g/kg seed)		Application Schedule/ Recommendation	Interval (Day) between last application and harvest
				Formulation or ml/10 lit water	% a.i. or g/ml ai/ha		
1978	Cotton	Bollworms	Cypermethrin 10 EC (I)	9ml	90 ppm (0.009%)	At peak flowering period at 15-20 days interval	-
			Fenvalerate 20 EC (I)	7.5ml	150 ppm (0.015%)	-do-	-
			Decamethrin 2.8 EC (I)	4.5 ml	12.5 ppm (0.00125%)	-do-	-
			Permethrin 25 EC (I)	6ml	150 ppm (0.015%)	-do-	-
1981	Cotton	Cotton pests	Fenvalerate 20 EC (I)	7.5ml	150 ppm (0.015%)	Spraying the crop with any one of the insecticide	-
			Cypermethrin 10 EC (I)	9ml	90 ppm (0.009%)	-do-	7 days(as per CIB)
1984	Cotton	Bollworms	Cypermethrin 10 EC (I)	5ml	50 g a.i./ha	Based on ETL 20 larvae/20 plants	7 days(as per CIB)
			Decamethrin 2.8 EC (I)*	5 ml	15 g a.i./ha	- do -	-
			Fenvalerate 20 EC(I)	5ml	100 g a.i./ha.	- do -	7 days(as per CIB)
1985	Cotton	Bollworms	Flucythrinate 20 EC (I)	2 ml	40g a.i./ha	Spraying of any one insecticides at peak flowering stage	-
			Fluvalinate 25 EC(I)	2ml	50g a.i./ha	-do-	7 days(as per CIB)
1987	Cotton	Cotton bollworm	Fenvalerate 20 EC(I)	5ml	0.005%	Spraying at fortnightly interval during peak flowering period of the crop control cotton bollworm effectively while economizing the pesticidal application.	7 days(as per CIB)
			Decamethrin 2.8 EC (I)*	2.6 ml	0.00075%	- do -	-
			Cypermethrin 10 EC(I)	3ml	0.003%	- do -	7 days(as per CIB)
1989	Cotton	Spodoptera	Diflubenzuron 25 WP(I)	16ml	0.04%	Recommended for the effective control	-
1993	Cotton	Whitefly	Triazophos 40 EC(I)#	19ml	0.75 kg a.i./ha	Recommended for the control of whitefly	21 days(as per CIB)
1995	Cotton	Bollworms	Fenvalerate 20 EC(I)	4ml	75 g a.i./ha	Application of Fenvalerate for boll worms	7 days(as per CIB)
			Chlorpyriphos 20 EC(I)*	38ml	750 g a.i./ha	Application of Chlorpyriphos. Insecticides should be applied on need base.	-
		Helicoverpa	HNPV (I)	-	450 LE	Need base	-
		Spodoptera	SNPV (I)	-	250 LE	Need base	-
		SP & BW	Margocide CK (I)	3 lit/ha	-	SP & BW at ETL	-
			Achook(I)	1.5 kg/ha	-	Bollworms at ETL	-
1997	Cotton	Cotton pests	Methyl-o-demeton 25 EC(I)	12ml	0.03%	Blanket application of Methyl-o-derneton during early season i.e. up to 40 days after germination	-
		Cotton pests	Monocrotophos36 SL(I)*	11ml	0.04%	Need based application alternatively at ETL.	-
		Cotton pests	Quinalphos 25 EC(I)*	20ml	0.05%	- do -	-
		Cotton pests	Profenophos 50 EC(I)	10ml	0.05%	- do -	15 days (as per CIB)



A. INSECTICIDES							
Year	Crop	Pest	Pesticide/formulation (I/F/H/N/R/PR)*	Application (Conc. or g/kg seed)		Application Schedule/ Recommendation	Interval (Day) between last application and harvest
				Formulation or ml/10 lit water	% a.i. or g/ml ai/ha		
		Cotton pests	Chlorpyriphos 20 EC(I)*	25ml	0.05%	- do -	-
		Helicoverpa	HNPV (I)	-	450 LE	Need base	-
		Spodoptera	SNPV (I)	-	250 LE	Need base	-
		Pest complex	Neem based (I)	3 lit/ha	-	Alternatively at ETL	-
1998	Cotton	Bollworms	Profenphos 50 EC (I)	20ml	1.0 kg a.i./ha	- do -	15 days (as per CIB)
			Quinalphos 20 AF(I)*	2.5 l/ha	0.1%	- do -	7 days (as per CIB)
1998	Cotton	Bollworms	Profenophos 40 EC+ Cypermethrin 4 EC (I)	1.0 l/ha	0.08%	Insecticides should be sprayed as and when bollworm crosses the ETL under South Gujarat conditions.	14 days (as per CIB)
			Cypermethrin 10 EC(I)	0.5 l/ha	0.1%	- do -	7 days(as per CIB)
1998	Cotton	Bollworms	Methyl-O-dematton 25 EC(I)	12ml	0.03 %	One to two blanket application(s) of Methyl-o-dematton during early season i.e. upto 40 days of germination as and when necessary.	-
			Monocrotophos36 SL(I)*	11ml	0.04 %	- do -	-
			Quinalphos 25 EC(I)*	20 ml	0.05 %	- do -	-
			Fenvalerate 20 EC(I)	1 ml	0.0012 %	- do -	7 days(as per CIB)
1999	Cotton	Sucking pests and bollworms	Methyl-O-dematton 25 EC(I)	12 ml	0.03 %	Blanket application of Methyl-o-dematton during initial crop stage (upto 40 days after germination)	-
		Bollworms	Chlorpyriphos 20 EC(I)*	2.5 l/ha	0.1%	- do -	-
		Bollworms	Quinalphos 20 AF(I)*	2.5 l/ha	0.1%	- do -	7 days (as per CIB)
		Bollworms	Fenvalerate 20 EC(I)	500 ml/ha	0.02	- do -	7 days(as per CIB)
		Helicoverpa	HNPV (I)	-	450 LE	Need base	-
		Spodoptera	SNPV (I)	-	250 LE	Need base	-
2000	Cotton	Pest complex	NSKS (I)	3 lit/ha	-	Alternatively at ETL of different pests	-
		Sucking pests	Imidacloprid 70 WG(I)	10 g/kg seeds	-	Based on the results of the following IPM module is recommended. Spraying of insecticides for control of insect pests as well as bollworms on ETL base.	-
		Bollworms	Quinalphos 25 EC(I)*	20 ml	0.05%	- do -	-
			Chlorpyriphos 20 EC(I)*	25 ml	0.05%	- do -	-
		Bollworms	Cypermethrin 10 EC(I)	0.5 l/ha	0.01	- do -	7 days(as per CIB)
			Profenophos 40 % + Cypermethrin 4 % (I)	1.0 l/ha	0.08	- do -	14 days (as per CIB)
			Fenvalerate 20 EC(I)	0.5 l/ha	0.02	- do -	7 days(as per CIB)
Helicoverpa	HNPV (I)	-	450 LE	Need base	-		



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A. INSECTICIDES							
Year	Crop	Pest	Pesticide/formulation (I/F/H/N/R/PR)*	Application (Conc. or g/kg seed)		Application Schedule/ Recommendation	Interval (Day) between last application and harvest
				Formulation or ml/10 lit water	% a.i. or g/ml ai/ha		
		Spodoptera	SNPV (I)	-	250 LE	Need base	-
		Pest complex	NSKS (I)	3 lit/ha	-	Alternatively at ETL of different pests	-
2001	Cotton	Aphid ( <i>A. gossypii</i> ), jassid ( <i>A. biguttallabiguttulla</i> ) and thrips ( <i>Thrips tabaci</i> )	Thiamethoxam 70 WS(I)	2.8 g/kg seed	-	Seed treatment with any one of the insecticides is recommended.	-
			Imidacloprid 70 WS (I)	7.5 g/kg seed	-	- do -	-
			Imidacloprid 600 FS(I)	9 ml/kg seed	-	- do -	-
2001	Cotton	Bollworms	Spinosad 45 SC(I)	2 ml	75 g a.i./ha	Application as per ETL base (5 % boll damage) is recommended for control of bollworms attacking G.Cot.Hy-10 cotton in South Gujarat Agro climatic Zone.	10 days(as per CIB)
			Beta-cyfluthrin 2.45 SC (I)	1 ml	18 g a.i./ha	- do -	-
			Novaluron 10 EC(I)	10 ml	100 g a.i./ha	- do -	40 days(as per CIB)
		Helicoverpa	HNPV (I)	-	450 LE	Need base	-
		Spodoptera	SNPV (I)	-	250 LE	Need base	-
		Pest complex	Neemark(I)	3 lit/ha	-	Alternatively at ETL of different pests	-
2002	Cotton	Sucking pests	Imidacloprid 17.8 SL(I)	1 ml	20 g a.i./ha	Need based application of any of the following insecticides are recommended.	40 days(as per CIB)
			Acetamiprid 20 SP(I)	1 g	10 g a.i./ha	- do -	15 days(as per CIB)
			Thiamethoxam 25 WG(I)	1 g	25 g a.i./ha	- do -	-
2005	Cotton	Pink bollworm	Spinosad 45 SC(I)	1 ml	50 g a.i./ha	At 10 days interval starting from incidence of pink bollworm	10 days(as per CIB)
			Deltamethrin tablet 25% (I)*	-	10 g a.i./ha	- do -	30 days(as per CIB)
			Betacyfluthrin 2.5 SC (I)	7 ml	18 g a.i./ha	- do -	20 days(as per CIB)
2010	Cotton	Mealybug	Imidacloprid 70 WG(I)	1 ml	0.00375%	Spray imidacloprid or acetamiprid or acetamiprid + chlorpyrifos at 15 days intervals starting from initiation of the pest	40 days(as per CIB)
			Acetamiprid 20 SP(I)	2 g	0.004%	- do -	15 days(as per CIB)
2017	Cotton	Pink bollworm	Spinosad 45 SC	3 ml	67.5	First spray at 75 days after sowing and second at 15 days of first spray for effective management of pink bollworm	10 days(as per CIB)
			Emamectinbenzoate 5SG	5 g	12.5		10 days(as per CIB)
			Indoxacarb 15.8 EC	5 ml	39.5		14 days(as per CIB)
2020	Cotton	Sucking pests & Bollworms	Azadirachtin 1500 PPM	50 ml	0.00075	Spraying at flowering initiation at 60 DAS	5 days(as per CIB)
		Sucking pests(Thrips, Leafhopper, Aphid,Whitefly)	Flonicamid 50 WG	3 g	0.015	Stem application at 30, 45 and 60 DAS	25 days(as per CIB)
		Pink bollworm	Indoxacarb 14.5 SC	10 ml	0.0145	ETL (10% fruiting body damage) based alternate	16 days(as per CIB)



A. INSECTICIDES							
Year	Crop	Pest	Pesticide/formulation (I/F/H/N/R/PR)*	Application (Conc. or g/kg seed)		Application Schedule/ Recommendation	Interval (Day) between last application and harvest
				Formulation or ml/10 lit water	% a.i. or g/ml ai/ha		
2021	Cotton	Sucking pests & Bollworms	Emamectin benzoate 5 SG	5 g	0.0025	application of recommended insecticides	10 days(as per CIB)
			Spinosad 45 SC	3 ml	0.014		10 days(as per CIB)
		Sucking pests (Thrips, Leafhopper, Aphid, Whitefly)	Azadirachtin 1500 PPM	50 ml	0.00075	60 DAS	5 days(as per CIB)
			Flonicamid 50 WG	3 g	0.015	Stem application at 30, 45 and 60 DAS	25 days(as per CIB)
			Pink Bollworm	Indoxacarb 14.5 SC	5 ml	0.0072	ETL (10% fruiting body damage) based application
Emamectin benzoate 5 SG	5 g	0.0025		10 days(as per CIB)			
Spinosad 45 SC	3 ml	0.014	10 days(as per CIB)				
2021	Cotton	Pink bollworm	Thiodicarb 75 WP	20 g	0.15	60 DAS	30 days(as per CIB)
			Chlorpyrifos 20 EC	25 ml	0.05	90 DAS	-
			Lambda-cyhalothrin 5 EC	10 ml	0.005	120 DAS	21 days(as per CIB)
			Flonicamid 50 WG	3 g	0.015	First spray at initiation of sucking pests and subsequent two sprays at 15 days interval from first spray	25 days (as per CIB)
2023	Cotton	Sucking Pest	Flonicamid 50 WG	3 g	0.015	First spray at initiation of sucking pests and subsequent two sprays at 15 days interval from first spray	25 days (as per CIB)

# Insecticide banned vide Ministry & Agriculture Farmers' Welfare, Government of India Gazette Notification No.3156, Dt.9<sup>th</sup> August, 2018.

\* Insecticide likely to ban vide Ministry & Agriculture Farmers' Welfare, Government of India draft Notification No.1351, Dt.18<sup>th</sup> May, 2018.

B. FUNGICIDES							
Year	Crop	Pest/ Disease	Formulation (I/F/H/N/R/PR)*	Application (Conc. Or g/kg seed)		Application schedule/ Recommendation	Interval (Days) between last application and harvest)
				Formulation g or ml/10 lit of water	% a.i. or g/ml a.i./ha		
1972	Cotton	Seed borne diseases	Sulphuric acid	100 ml/kg		Seed delinting	--
1984	Cotton	Bacterial blight	Streptocycline sulphate (A) 100%	0.5 g	0.005 %	Spray at the initiation of the disease	--
			Copper oxychloride (F) 50 WP	40 g	0.2 %		--
2003	Cotton	Root rot	<i>Trichoderma viride</i>	5 g/kg	--	Seed treatment	--
2011	Cotton	Bacterial blight	<i>Pseudomonas fluorescens</i>	--	10 g/kg seed treatment + 20 g/10 lit for three spray	Seed treatment + three foliar spray at 30 days interval starting from 30 days after sowing	--



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B. FUNGICIDES							
Year	Crop	Pest/ Disease	Formulation (I/F/H/N/R/PR)*	Application (Conc. Or g/kg seed)		Application schedule/ Recommendation	Interval (Days between last application and harvest)
				Formulation g or ml/10 lit of water	% a.i. or g/ml a.i./ha		
2023	Cotton	Bacterial blight	<i>Pseudomonas fluorescens</i>	(10 <sup>8</sup> cfu/g) 10g per kg	-	Two applications of <i>Pseudomonas fluorescens</i> 0.5% WP (10 <sup>8</sup> cfu/g) 2.5 kg/ha mixed in 250 kg of vermicompost at 30 and 60 days	-
2024	Cotton	Boll Rot	<i>fluxapyroxad</i> 167 g/ L + <i>pyraclostrobin</i> 333 g/ L SC or <i>metiram</i> 55% + <i>pyraclostrobin</i> 5% WG	6ml/ 10L Or 30g/ 10L of water	-	Foliar Spray	-

C. WEEDICIDES							
1984	Cotton	Weeds	oxadiazon 25 EC #	80	1 kg a.i./ha	Pre-emergence +	150-180
			Diuron 80 WP	20	0.75 kg a.i./ha	Post emergence	150
2001	Cotton	Weeds	Fluchloralin 45 EC	5.6	0.625 kg a.i./ha	Pre sowing band application	180
2011	Cotton	Weeds	Pendimethalin 30 EC*	66.6	1 kg a.i./ha	Pre emergence	180

# Weedicide note in the approved list of Weedicide in cotton Ministry & Agriculture Farmers' Welfare, Government of India Major uses of Weedicide Notification Dt.31<sup>th</sup> January, 2020.

\* Weedicide likely to ban vide Ministry & Agriculture Farmers' Welfare, Government of India draft Notification No.1351, Dt.18<sup>th</sup> May, 2018.

D. GROWTH REGULATORS							
Year	Crop	Pest	Pesticide/Formulation (I/F/H/N/R/PR)	Application (Conc. or g/kg seed)		Application schedule/ Recommendation	Interval (days) between last application and harvest
				Formulation g or ml per 10 lit water	% a.i. or g/ml a.i. per ha		
1994	Cotton	Defoliant	Ethrel (H)	--	2000 ppm	50% boll bursting stage	-
2011	Cotton	Defoliant	Ethylene (H)	--	45 ppm	Square initiation (35-40 DAS)	-
2023	Cotton	Growth retardant	Mepiquate Chloride	5%(8.5 ml)	20 g ai	60 and 75 DAS	-



**સંશોધન નિયામકશ્રી, નકૃયુ, નવસારીનાં તા.૦૯/૦૫/૨૦૧૯નાં પરીપત્ર  
જા.નં.નકૃયુ/સંનિ/૪૧૫૫/૨૦૧૯ મુજબ વધારાની માહિતી**

**૧. જેઆરએફ/એસઆરએફ/આરએ/રોજમદારનાં કોન્ટ્રાક્ટ્યુલ સ્ટાફની માહિતી**

ક્રમ	નામ	હોદ્દો અને પગારધોરણ	યોજનાનું નામ અને બ.સ.	સમયગાળો
૧	પીપરીયા પ્રતિક્ષા આર.	Contractual Staff 25000/- Fix	Bio-safety research trial (BRL.1) for transgenic hybrids and events on evaluate insect resistance (Pink Bollworm) in cotton hybrids carrying selected transgenic event at Navsari Agricultural University, Surat (B.H.-18279)	03.01.2026 to 30.11.2026

૨. સંશોધન લેખોની માહિતી : ઉપરનાં મુદ્દા નં.૫ પ્રમાણે

૩. ભલામણ કરેલ તેની માહિતી : ઉપરનાં મુદ્દા નં.૬ પ્રમાણે

૪. સેમીનાર/ સીમ્પોઝીયમ/ કોન્ફરન્સ/ વર્કશોપ/ શોર્ટ ટર્મ ટ્રેનીંગ/ સમર એન્ડ વિન્ટર સ્કુલ ટ્રેનીંગ/ ઓરીએન્ટેશન ટ્રેનીંગ/ રીફ્રેસર કોર્ષ માટેનું રજીસ્ટર/ ઓથ. રીફ્રેશનની માહિતી :

**PARTICIPATION IN SEMINAR/SYMPOSIUM/CONFERENCE –**

Sr. No.	Name & Designation	Details of Seminar/Symposium/ Conference	Place	Date	Duration
<b>2016-17</b>					
1	Dr. B. G. Solanki, Research Scientist (Cotton), NAU, Surat	Celebration of International day for Biological Diversity	Ahmadabad	22/05/2016	1 Day
		Indian Society of Plant Genetic Resources and 1 <sup>st</sup> International Agrobiodiversity Congress	ICAR, NASC complex, New Delhi	6-8/11/2016	3 Days
		Brain Storming Session fifty years of cotton research “ Lessons learnt and the way forward”	CICR, Coimbatore	9-11/11/2016	3 Days
2.	Dr. D. H. Patel, Asso. Res. Sci. MCRS, NAU, Surat	Brain storming session on Cryopreservation and Tissue culture	GSBTM, Gandhinagar	16/9/2016	1 Day
		IPR meet on GM Trades and Seeds	Gandhinagar	8/8/2016	1 Day
		Germplasm field Day	CICR, Nagpur	6/12/2016	1 Day
2	Dr. H. R. Ramani Assist.Res., MCRS, NAU, Surat	Attended symposium on “Non-thermal technology for improvement of safety and quality of foods”	Food processing technology and bioenergy, AAU, Anand	18/03/2017	1 Day
3	Dr. P. B. Sandipan Assistant Research Scientist (Pl. Path.), MCRS, NAU, Surat	One day State level seminar “Plant Protection in Organic Farming”	NAU, Navsari	11/06/2016	1 Day
4	Dr. R. D. Patel Assist. Res. Sci. (Ento.), MCRS, NAU, Surat	One day State level seminar “Plant Protection in Organic Farming”	NAU, Navsari	11/06/2016	1 Day
5	Dr. G. R. Bhandari Assistant Research Scientist (Ento.), MCRS, NAU, Surat	One day State level seminar “Plant Protection in Organic Farming”	NAU, Navsari	11/06/2016	1 Day
<b>2017-18</b>					
1	Dr. B. G. Solanki Research Scientist (Cotton)	7 <sup>th</sup> Asiatic Cotton Research and Development Network Meeting	CICR, Nagpur	15-17/09/17	03 days
2	Dr. H. R. Desai Asso.Res.Sci. (Ento)	7 <sup>th</sup> Asiatic Cotton Research and Development Network Meeting	CICR, Nagpur	15-17/09/17	03 days
3	Dr. D. H. Patel Asso.Res.Sci.(Ag. Bot)	7 <sup>th</sup> Asiatic Cotton Research and Development Network Meeting	CICR, Nagpur	15-17/09/17	03 days



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Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
4	Dr. K.V.Vadodariya Asso.Res.Sci.(Ag. Bot)	7 <sup>th</sup> Asiatic Cotton Research and Development Network Meeting	CICR, Nagpur	15-17/09/17	03 days
5	Dr. S. L. Pawar Asso. Res. Scientist (Agronomy)	7 <sup>th</sup> Asiatic Cotton Research and Development Network Meeting	CICR, Nagpur	15-17/09/17	03 days
6	Dr. K. B. Sankat Assist. Res. Scientist (Agronomy)	7 <sup>th</sup> Asiatic Cotton Research and Development Network Meeting	CICR, Nagpur	15-17/09/17	03 days
7	Dr. H. R. Ramani	One Day International Symposium on Emerging Biological trends in 21st Century	P P Savani University, Kosamba, Surat	05/11/2017	1 day
8	Dr. Rajesh D. Patel Dr. Preeti R. Parmar	Bt-resistance monitoring of Pink bollworm on Cotton	CICR, Nagpur	20-22/04/2017	03 days
9	Dr. Rajkumar B. K. Dr. Preeti R. Parmar	International symposium on "Emerging Biological Trends in 21st Century"	School of sciences, PP Savani University, Kosamba, Gujarat	5/11/2017	1 day
10	Dr. Rajkumar B. K.	Contemporary Trends in Cancer Research	Department of Biosciences (UGC-SAP-DRS-II) Veer Narmad South Gujarat University, Surat, Gujarat	18/8/2017	1 day
11	Dr. Preeti R. Parmar	Contemporary Trends in Cancer Research	Department of Biosciences (UGC-SAP-DRS-II) Veer Narmad South Gujarat University, Surat, Gujarat	18/8/2017	1 day
12	Dr. G. R. Bhanderi	PPAG seminar on AdhunikKhetima Pak Sanrakshan: Samasyaane Samadhan	JAU, Junagadh	19/08/2017	1 day
13	Dr. G. O. Faldu	National Seminar on "Sustainable Food Value Chain in Arena of Climate Change"	ASPEE college of horticulture and Forestry, NAU, Navsari	7/06/2017	1 day

#### 2018-19

1	Prashant B. Sandipan	Attended and Presented Plant Pathological technical report in the Technical session of State Technical Meeting on Cotton	Regional Cotton Research Station, AAU, Anand (Gujarat)	May 23, 2018	1 day
2	Prashant B. Sandipan	Presented paper in the ISPP West Zonal Seminar on "Emerging Trends in Plant Physiology for Crop Production under Climate Change Scenario".	organized by Mahatama Phule Krishi Vidyapeeth, Rahuri and Indian Society for Plant Physiology, New Delhi at Rahuri	August 04, 2018.	1 day
3	Prashant B. Sandipan	Attended State level seminar on "Uttar Gujarat Na BagayatiPakoma Pak Sanrakshan" on at SDAU, Sardarkrushinagar.	PPAG & SDAU, Sardarkrushinagar (Gujarat)	September 29, 2018	1 day
4	Prashant B. Sandipan	Participation in the 1 <sup>st</sup> State level Convention on "Latest Technology for Prosperity and Sustainable Development in Agriculture".	Navsari Agricultural University, Navsari (Gujarat).	November 18, 2018	1 day
5	Prashant B. Sandipan	Participated and Presented paper in the International e-Conference.	MCM Centre for Theoretical Research, Biratnagar-12, Nepal	December 5-6, 2018	2 days
6	Prashant B. Sandipan	Attended and Presented paper in National Symposium on "Sustainable Management of Pests and Diseases in Augmenting Food and Nutritional Security" on jointly organized by	NAU, Navsari, (Gujarat)	January 22-24, 2019	3 days
7	Dr. G. R. Bhanderi Dr. R. D. Patel	Participation in one day state level PPAG Seminar on "Uttar Gujarat naBagayati Pako ma Pak Sharkshan"	SDAU, Sardarkrushinagar	Sept. 29, 2018	01
8	Dr. H. R. Desai Dr. G. R. Bhanderi	National symposium on "Sustainable Management of Pests and Diseases in Augmenting Food and National Security"	ACHF, NAU, Navsari	Jan. 22-24, 2019	03



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Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
<b>2019-20</b>					
1	Dr. D. H. Patel Dr. Rajkumar B. K. Dr. H. R. Ramani	National seminar on "Biochemical and Molecular intervention for nutrient securities and food safety" at NAU, Navsari.	Department of soil science and agri. Chemistry, NAU, Navsari	12/12/2019 to 13/12/2019	01
2	Dr. K. B. Sankat Dr. K.V. Vadodariya Dr. S. L. Pawar Dr. D. H. Patel Dr. Rajkumar B. K. Dr. G. R. Bhanderi Dr. R. D. Patel Dr. H. R. Ramani	National Symposium on "Cotton Production and Technologies in the Next Decade: Problems and Perspective"	Odisha University of Agriculture and Technology, Bhubaneswar, Odisha January 22-24, 2020.	22/01/2020 to 24/01/2020	03
3	Dr. Preeti R. Parmar	National Conference on "Recent Trends in Biosciences and Environmental Science (RTBES 2020)"	Department of Botany and Zoology, Khandesh college education society's Moolji Jaitha college, Jalgaon	16/01/2020 to 17/01/2020	01
4	Dr. G. R. Bhanderi Dr. H. R. Ramani	One Day training workshop on SPNF at NAU, Navsari	NAU, Navsari	9/2/2020	01
<b>2020-21</b>					
1	Dr. H. R. Desai	Webinar on Leveraging opportunities for technology, innovation and quality improvement in Higher and Technical Education amidst Covid-19 pandemic	Principal Secretary, Higher and Technical Education, GoG	10/04/2020	01
2	Dr. H. R. Desai	Webinar On Agriculture and effect of Covid 19	Education Department, GoG and SAUs of Gujarat	15/05/2020	01
3	Dr. H. R. Desai	Webinar on Locust: A serious threat to Agriculture on Locust	Centre for Advance Training-plant Protection, CCSHAU, Haryana	29/05/2020	01
4	Dr. H. R. Desai	National Faculty Development Training Program	University Library, NAU, Navsari	04/06/2020 to 08/06/2020	05
5	Dr. H. R. Desai	National webinar on Emerging trends in scholarly publishing	University Library & Information Centre, Karnataka Veterinary, Animal & Fisheries Sciences University Nandinagar, Bidar, Karnataka	23/06/2020	01
6	Dr. H. R. Desai	Webinar on "Addressing Covid 19 impact on food security, nutrition and future livelihood: A special focus to Gujarat	Deptt. of Agril. Extension & Communication and Deptt. of genetics and Plant Breeding in Association with Deptt. of Agril. Statistics, CoA, NAU, Bharuch	15/07/2020 & 16/07/2020	02
7	Dr. H. R. Desai	Webinar on Biopesticides: Green technology in sustainable Agriculture	CoA, NAU, Bharuch	18/08/2020	01
8	Dr. H. R. Desai	NAHEP-CAAST, AAU webinar on Problems and Solutions of Kharif crops	PPAG & AAU, Anand	20/08/2020	01
9	Dr. H. R. Desai	Zoom meeting on Bt cotton in India: Myths and Realities (An Evidence Based Evaluation)	JATAN & ASHA	24/08/2020	01
10	Dr. H. R. Desai	Training on e-Kapas / Communications: Voice messages delivery under NFSM:CC: Cotton: IRM: PBWM	ICAR-CICR, Nagpur	01/09/2020	01
11	Dr. H. R. Desai	ASHA webinar series on Food, Farming and Farmers Uncultivated Foods	Alliance for Sustainable & Holistic Agriculture	04/09/2020	01
12	Dr. H. R. Desai	Bio-Technika sponsored free webinar on Celebrating 18 years of Bt cotton in India: Scientists & Farmers Meet	BioTechnika Info Labs Pvt. Ltd (E-certi & E-Books)	12/09/2020	01
13	Dr. G. R. Bhanderi Dr. R. D. Patel	National Symposium on "Cotton Production Technologies in the Next Decade: Problems & Perspectives"	Odisha University of Agriculture and Technology, Bhubaneswar, Odisha	22-24 January, 2020	03



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Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
14	Dr. G. R. Bhanderi	National Level Faculty Development Training Programme – “DIGICULT-Spreading Digital Culture to the Library Professional, Readers and Researchers”	Navsari Agricultural University, Navsari (Gujarat).	08 <sup>th</sup> to 12 <sup>th</sup> June, 2020	05
15	Dr. G. R. Bhanderi	National Webinar on Organic Farming	Jawaharlal Nehru Krishi Vishwa Vidyalaya, Jabalpur (M.P.).	16-20 June, 2020	05
16	Dr. G. R. Bhanderi	National Webinar on “National Level Faculty Development Programme:SOWSEEKNOW-Sowing Seeds of Knowledge to Library & Information Professionals”	Navsari Agri. Uni., Navsari (Gujarat), Vasantro Naik Marathwada Krishi Vidyapeeth, Parbhani (Maharashtra) & Association of Agricultural Librarians and Documentalists of India (AALDI)	18 <sup>th</sup> to 22 <sup>nd</sup> June, 2020	05
17	Dr. G. R. Bhanderi	National Webinar on “Emerging Trends in Scholarly Publishing”	University Library & Information Centre, Karnataka Veterinary, Animal & Fisheries Sciences University Nandinagar	23 <sup>rd</sup> June, 2020	01
18	Dr. G. R. Bhanderi	“Recent Biotechnological Tools for Crop Improvement”	Advanced Post Graduate Centre, Acharya N.G. Ranga Agricultural Uni., Lam, Guntur(A.P.).	24 <sup>th</sup> June, 2020	01
19	Dr. G. R. Bhanderi	“Addressing covid-19 impact on food security, nutrition and future livelihood: A special focus to Gujarat”	College of Agriculture, Navsari Agricultural University, Campus Bharuch (Gujarat).	15 <sup>th</sup> to 16 <sup>th</sup> July, 2020	02
20	Dr. G. R. Bhanderi	International Web Conference on “Ensuring Food Safety, Security and Sustainability through Crop Protection”	Bihar Agricultural University, Sabour, Bhagalpur.	August 5-6, 2020	02
21	Dr. G. R. Bhanderi Dr. Rajkumar B.K.	National Webinar on “Biopesticides: Green Technology in Sustainable Agriculture”	College of Agriculture, NAU, Campus Bharuch (Gujarat).	18 <sup>th</sup> August, 2020	01
22	Dr. G. R. Bhanderi	A State Level Seminar on “Kharif pakomapsanrakshan no pravartman prashano ane nirakaran”	Plant Protection Association of Gujarat (PPAG) and AAU, Anand	25 <sup>th</sup> August, 2020.	01
23	Dr. G. R. Bhanderi	International Web Conference on “Ensuring Food Safety, Security and Sustainability through Crop Protection”	Bihar Agricultural University, Sabour, Bhagalpur.	August 5-6, 2020	02
24	Dr. G. R. Bhanderi Dr. Rajkumar B.K.	National Webinar on “Scope of Agricultural Entrepreneurship Development”	Department of Agronomy, College of Agriculture, NAU, Campus Bharuch (Gujarat).	19 <sup>th</sup> -21 <sup>st</sup> August, 2020	03
25	Dr. G. R. Bhanderi	Online workshop on “Microbial intervention in Plant Health and Nutrition”	College of Agriculture, Navsari Agricultural University, Campus Bharuch (Gujarat).	25-26 <sup>th</sup> August, 2020	02
26	Dr. G. R. Bhanderi	Online participated in the Virtual Sensitization Programme on “Knowledge Management in the Networked Digital Environment”	Tamil Nadu Veterinary and Animal Sciences University Library, Chennai & Kerala Veterinary and Animal Sciences Uni., Pookode, Wayanad, Kerala.	27 <sup>th</sup> August, 2020	01
27	Dr. G. R. Bhanderi	A State Level Seminar on “KapasnaPakma Pak Sharakshan”	Plant Protection Association of Gujarat (PPAG) and Anand Agricultural Uni., Anand	25 <sup>th</sup> August, 2020.	01
28	Dr. R. D. Patel	National Webinar on “Webinar on Ergonomics and Psychological Issues and coping during COVID-19	College of Community and Applied Sciences, Maharana Pratap	21 <sup>st</sup> June, 2020	01



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Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
		Pandemic”	University of Agriculture and Technology Udaipur, Rajasthan		
29	Dr. R. D. Patel	Training on “Enterpreneurship Development in Pest Management for Youth”	College of Agriculture, Iroisemba, Central Agricultural Univesity, Imphal, Manipur	29 <sup>th</sup> June to 3 <sup>rd</sup> July	05
30	Dr. R. D. Patel	National Webinar on “Challenges and Recent Initiatives on Sustainable Management on Fall Armyworm”	Bihar Agricultural University, Sabour, Bhagalpur	16 <sup>th</sup> July	01
31	Dr. R. D. Patel	National Webinar on “Future Prospects of Agriculture in India”	All India Coordinated Research Project on Honey Bees and Pollinators and Department of Agriculture, UAS, GKVK, Bengaluru, Karnataka	28 <sup>th</sup> July, 2020	01
32	Dr. R. D. Patel	A State Level webinar on “Kharif pakomapaksanrakshannapravatmanprashno and nirakaran”	Plant Protection Association of Gujarat (PPAG) and Anand Agricultural University, Anand	20 <sup>th</sup> August, 2020	01
33	Dr. R. D. Patel	National webinar on “Recent Trends in Horticultural Entomology”	College of Horticulture, SardharkrushinagarDantiwada Agricultural University, Jagudan	27 <sup>th</sup> August, 2020	01
34	Dr. R. D. Patel	Webinar on “Bio-Technika sponsored free webinar on Celebrating 18 years of Bt cotton in India: Scientists & Farmers Meet”	Bio-Technika Info Labs Pvt. Ltd	12 <sup>th</sup> September, 2020	01
35	Dr. R. D. Patel	A State Level webinar on “Kapasna pakma paksanrakshan”	Plant Protection Association of Gujarat (PPAG) and Anand Agricultural University, Anand	16 <sup>th</sup> September, 2020	01
36	Dr. R. D. Patel	National webinar on “Management of biotic and abiotic stresses in protected agriculture”	CSK Himachal Pradesh Krishi Vishvavidyalaya, Pamampur(HP)	22-24 September, 2020	03
37	Dr. R. D. Patel	A State Level webinar on “Shiyalu Sakbhajina pakoma paksanrakshan”	Plant Protection Association of Gujarat (PPAG) and Anand Agricultural University, Anand	6 <sup>th</sup> October, 2020	01
38	Dr. R. D. Patel	National webinar on “Integrated Disease Management in Horticultural Crops”	College of Horticulture, SardharkrushinagarDantiwada Agricultural University, Jagudan	22 <sup>th</sup> October, 2020	01
39	Dr. R. D. Patel	Webinar on “Diagnostic and Remedial Measure for Common Errors in Application of Statistics”	College of Agriculture, Navsari Agricultural University, Campus Bharuch	20-21 October, 2020	02
40	Dr. R. D. Patel	A State Level webinar on “Sjeev Khetima paksanrakshan”	Plant Protection Association of Gujarat (PPAG), Gujarat Organic Agricultural University and AAU, Anand	27 <sup>th</sup> October, 2020	01
41	Dr. P. B. Sandipan	Actively participated in an International Webinar on “Bridging the gap-opening up large volumes to Nanotechnology”	School of Sciences, P. P. Sawani University, Surat.	25 <sup>th</sup> July, 2020	01
42	Dr. P. B. Sandipan	Actively participated in the National Webinar on “ADVANCED SUSTAINABILITY ASSESSMENT”	School of Sciences, P. P. Sawani University, Surat.	28 <sup>th</sup> July, 2020	01
43	Dr. P. B. Sandipan	Participated in the National Webinar on Future Prospects of Apiculture in India	Department of Apiculture, UAS, GKVK, Bengaluru, Karnataka.	28 July, 2020	01

Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
44	Dr. P. B. Sandipan Dr. Rajkumar B.K.	Successfully participated in the National Webinar on “Current, status, Challenges & Future Prospects of Plant Diseases”	Department of Plant Pathology, College of Agriculture, Swami Keshwanand Rajasthan Agricultural Uni., Bikaner	July 29, 2020.	01
45	Dr. P. B. Sandipan	Participated in the National Webinar on “SCIENTIFIC APPROACH TO PEST MANAGEMENT : SHIFT FROM MOLECULES TO MANAGEMENT SYSTEM”	GREEN ACADEMY & Alliance for Sustainable and Holistic Agriculture (ASHA).	July 30, 2020	01
46	Dr. P. B. Sandipan	Participated in the Webinar Meet on “Anar Utpadan Aur MulayaSavardhan : AdunikTaknik”	ICAR on National Research Centre on Pomegranate, Kegaon, Solapur (MS).	05 August, 2020	01
47	Dr. P. B. Sandipan	Attended National Webinar on “RECENT ADVANCES IN SEED SPICES PRODUCTION”	Seed Spices Research Station, SDAU, Jagudan	04 <sup>th</sup> August, 2020.	01
48	Dr. P. B. Sandipan	Participated in the “International Web Conference on Ensuring Food Safety, Security and Sustainability through Crop Protection”	Bihar Agricultural University, Sabour, Bhagalpur	August 5-6, 2020.	02
49	Dr. P. B. Sandipan	Successfully participated in National Webinar on “Agri-Planning for Disaster Times: Floods and COVID 19”	Dr. Rajendra Prasad Central Agricultural University, Pusa & Agrivision	06 <sup>th</sup> August, 2020.	01
50	Dr. P. B. Sandipan	Attended a Webinar on “Biopesticides: Green Technology in Sustainable Agriculture”	College of Agriculture, NAU, Bharuch	18 <sup>th</sup> August, 2020.	01
51	Dr. P. B. Sandipan	Participated in One Day <i>Online Webinar on “Kharif pako ma paksanrakshanna pravartman prashno ane nirakaran”</i>	PPAG and AAU, Anand	20 <sup>th</sup> August, 2020.	01
52	Dr. P. B. Sandipan	Attended Webinar on Bt Cotton in India: Myths and Realities (An Evidence based Evaluation)	Alliance for Sustainable & Holistic Agriculture (ASHA).	August 24, 2020	01
53	Dr. P. B. Sandipan	Participated in Two Days Online workshop on “Microbial Interventions in Plant Health and Nutrition”	College of agriculture, NAU, Campus Bharuch (Gujarat) India	25-26 <sup>th</sup> August, 2020.	02
54	Dr. P. B. Sandipan	Attended a National Webinar on “ENTERPRENEURSHIP AS A CAREER FOR YOUTH”	Department of Commerce and Dept. of Human Resource Management in association with IQAC, Golaghat Commerce College, Jyoti Nagar, Golaghat, Assam-785 621	26 <sup>th</sup> August, 2020.	01
55	Dr. P. B. Sandipan	Participated in the “National Web Conference on: Mushroom Production: An Emerging Avenue for Rural Youth and Self Employment”	Bihar Agricultural University, Sabour, Bhagalpur	August 26 and 27, 2020.	02
56	Dr. P. B. Sandipan	Successfully participated in the National Webinar on “RECENT TRENDS IN HORTICULTURAL ENTOMOLOGY”	Department of Plant Protection, College of Horticulture, SDAU, Jagudan	27 <sup>th</sup> August, 2020.	01
57	Dr. P. B. Sandipan	Attended a National Webinar on “CHANGING DIMENSION AFTER PANDEMIC”	Department of Accountancy in association with IQAC, Golaghat Commerce College	29 <sup>th</sup> August, 2020.	01
58	Dr. P. B. Sandipan	Participated in the “National Webinar on Sustainable Pest Management of Organic Banana: Need of Climate Smart Agriculture”	Bihar Agricultural University, Sabour, Bhagalpur	August 31, 2020.	01
59	Dr. P. B. Sandipan	Participated in the National Webinar on “Entrepreneurship opportunities in	Department of Post Harvest Technology,	2 <sup>nd</sup> September,	01

Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
		processing of fruits & vegetables of the arid region”	College of Horticulture, SDAU, Jagudan	2020.	
60	Dr. P. B. Sandipan	Participated in the “National E-workshop on Current Scenario of Post Graduation Research in Agriculture Sector”	the aegis of World Bank-ICAR Funded National Agricultural Higher Education Project (NAHEP), Swami Keshwanand Rajasthan Agricultural University, Bikaner (Raj.)	September 9-11, 2020.	02
61	Dr. P. B. Sandipan	Participated in the Webinar titled “High Impact Online Lectures”	Government Polytechnic College, Barmer, Rajasthan.	September 15, 2020	01
62	Dr. P. B. Sandipan	Participated in One Day Webinar on “KapasnaPakma Pak Sharakshan”	PPAG and AAU, Anand	16 <sup>th</sup> Sept., 2020.	01
63	Dr. P. B. Sandipan	Participated in Webinar on Floriculture to Sustain Farmers Income Amid Pandemic	Don Bosco College of Agriculture, Sulcorna, Quepem, Goa, India.	22 <sup>nd</sup> Sept., 2020	01
64	Dr. P. B. Sandipan	Participated in the “International Web Conference on Advances in Integrated Aqua farming for Sustainable Rural Development AIASRD-2020”	Bihar Agricultural University, Sabour, Bhagalpur	29-30 September, 2020	02
65	Dr. P. B. Sandipan	Attended a Webinar on “Underutilized fruits: Converting Wastelands in to Goldmine”	Department of Horticulture at College of Agriculture, NAU, Campus Bharuch	30 <sup>th</sup> September, 2020	01
66	Dr. P. B. Sandipan	Participated in One day Webinar on “ShiyaluShakbhajinaPakoma Pak Sanrakshan”	PPAG and AAU, Anand	06 <sup>th</sup> October, 2020	01
67	Dr. P. B. Sandipan	Actively participated in the International E-Conference on “Multidisciplinary approaches for plant disease management for achieving sustainability in agriculture”	Department of Plant Pathology, College of Horticulture, Bengaluru, (University of Horticultural Sciences, Bagalkot), India	6-9 <sup>th</sup> October, 2020	04
68	Dr. P. B. Sandipan	Participated in the Online Lectures on “Regulatory environment for safe use of Agrochemicals in India & Underutilized foods for enhancement of food and nutritional security	ICAR-National Agricultural Higher Education Project (NAHEP) and Centre for Advanced Agricultural Science & Technology (CAAST) on “Secondary Agriculture” by NAU, Navsari.	Oct 07, 2020	01
69	Dr. P. B. Sandipan	Participated in the National Webinar on “Integrated Disease Management in Horticultural Crops”	Department of Plant Protection, College of Horti., SDAU, Jagudan	22 <sup>nd</sup> October, 2020	01
70	Dr. P. B. Sandipan	Participated in One Day Online Webinar on “Sajeev Khetima Pak Sanrakshan”	PPAG, Gujarat Organic Agricultural University and AAU, Anand	27 <sup>th</sup> October, 2020.	01
71	Dr. P. B. Sandipan Dr. Rajkumar B.K.	Participated in Online workshop on “HPTLC Technique and its Applications in Agriculture”	Department of Plant Molecular Biology and Biotechnology, ASPEE College of Horticulture and Forestry, NAU, Navsari	03 <sup>rd</sup> November, 2020	01
72	Dr. P. B. Sandipan	Participated in the Webinar on “ShiyaduPakoma Poshan Vayvastha”	Indian Society of Soil Science, Anand Chapter and Centre for Agricultural Market Intelligence, NAHEP-CAAST, AAU, Anand	09 <sup>th</sup> November, 2020	01
73	Dr. P. B. Sandipan	Actively participated in the National Webinar on Management of Root rot disease of Horticultural Crops	The Department of Plant Pathology, PG College of Agriculture	November 24, 2020	01
74	Dr. P. B. Sandipan	Actively participated in the National Webinar series on Recent molecular approaches for plant disease diagnosis-I”	Acharya N.G. Ranga Agricultural University, S.V. Agricultural College, Tirupati.	17 <sup>th</sup> December, 2020	01



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Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
75	Dr. Rajkumar	Stress management for performance improvement	Director of Student's Welfare, NAU, Navsari	11 <sup>th</sup> October, 2020	01
76	Dr. Rajkumar B.K.	National Webinar on Biotechnological Interventions for Improvement of Pulse crops	Bihar Agricultural University, Sabour, Bhagalpur	07 <sup>th</sup> August, 2020	01
<b>2021-22</b>					
77	Dr. H. R. Desai, Dr. G. R. Bhanderi and Dr. R. D. Patel	Orientation workshop, NFSM:CC: Cotton: IRM: PBWM	Virtual Meet	30/07/2021	01
78	Dr. H. R. Desai, Dr. G. R. Bhanderi and Dr. R. D. Patel	One day Webinar on "Invasive pests and diseases problem in Indian Agriculture:	Online mode	07/08/2021	01
79	Dr. H. R. Desai, Dr. G. R. Bhanderi and Dr. R. D. Patel	Monthly meeting of NFSM:CC: Cotton: IRM: PBWM	Video conferencing	23/09/2021	01
80	Dr. H. R. Desai, Dr. G. R. Bhanderi and Dr. R. D. Patel	Webinar on Insecticide Resistance Management (Live demonstration of release of trichocard)	RCRS, Bharuch	13/10/2021	01
81	Dr. H. R. Desai, Dr. G. R. Bhanderi and Dr. R. D. Patel	State level seminar on Maintenance of the quality and safety of horticultural and food crops through Biological Control of Pests and Diseases	Central Examination Hall, NAU, Navsari	30/12/2021	01
82	H. R. Ramani Assistant Research Scientist (Biochemistry)	4 <sup>th</sup> International conference on "Global Approaches in Natural Resource Management for Climate Smart Agriculture (GNRSA- 2020) during Pandemic Era of COVID-19"	(Online) Shobhit Deemed University, Modipuram, Meerut, UP, India	26-28 <sup>th</sup> February, 2021	3 days
83	H. R. Ramani Assistant Research Scientist (Biochemistry)	National Webinar on "Pesticide Residue management: Indian Scenario" organized by NAHEP-CAAST, NAU, Navsari, Gujarat, India.	Online mode	January 23, 2021	1 day
84	H. R. Ramani Assistant Research Scientist (Biochemistry)	National Webinar on "Pesticide Residue management: Indian Scenario" organized by NAHEP-CAAST, NAU, Navsari, Gujarat, India	Online mode	January 23, 2021.	1 day
85	H. R. Ramani Assistant Research Scientist (Biochemistry)	Virtual National Seminar on "Advances in Sustainable Management of Natural Resources For Food and Nutritional Security" organized by Department of Soil Science and Agricultural Chemistry; Dept. of Agro, N. M. College of Agriculture in association with Indian Society of Soil Science, Navsari Chapter	Online mode	August 26-27, 2021	2 days
86	H. R. Ramani Assistant Research Scientist (Biochemistry)	E-quiz on "Life Science Deals Insights: Plants and Animals" organized by Department of Biochemistry, B.A. College of Agriculture, Anand Agri. Uni., Anand (Gujarat), India	Online mode	5 <sup>th</sup> September, 2021	1 day
87	H. R. Ramani Assistant Research Scientist (Biochemistry)	Online webinar "Role of Micro-organism in resilient of Agriculture organized by Swami KeshvanandRajeshtan Agriculture University , Bikaner	Online mode	5 <sup>th</sup> July, 2021	1 day
88	H. R. Ramani Assistant Research Scientist (Biochemistry)	One day online Faculty Development Program on Quality Enhancement in Higher Education organized by Internal Quality Assurance Cell (IQAC) Gujarat University	Online mode	January 21, 2021	1 day
89	Dr. Rajkumar B. K.	Interactive session on awareness rising for researchers organized by the Department of Biotechnology, GOI	Online mode	30 <sup>th</sup> December, 2021	1 day



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Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
90	Dr. Rajkumar B. K.	Advances in Sustainable Management of Natural Resources For Food and Nutritional Security" organized by Department of Soil Science and Agricultural Chemistry; Department of Agronomy, N. M. College of Agriculture in association with Indian Society of Soil Science, Navsari Chapter; Indian Society of Agronomy, Navsari, CAAST, NAU, Navsari (Gujarat) under NAHEP, ICAR, New Delhi	Online mode	August 26-27, 2021	2 day
91	Dr. Rajkumar B. K.	Stress management for performance improvement organized by Directorate of Student's Welfare, Navsari Agricultural University, Navsari	Online mode	October 11, 2020	1 day
92	Dr. Rajkumar B. K.	Scope of Agricultural Entrepreneurship Development organized by Department of Agronomy, College of Agriculture, Navsari Agricultural University, Campus Bharuch	Online mode	19– 21 <sup>st</sup> August 2020	3 day
93	Dr. Rajkumar B. K.	Biopesticides: Green Technology in Sustainable Agriculture". organized by College of Agriculture, Navsari Agricultural University, Campus Bharuch	Online mode	18 <sup>th</sup> August 2020	1 day
94	Dr. Rajkumar B. K.	Addressing COVID-19 impact on food security, nutrition, and future livelihood: special focus to Gujarat organized by College of Agriculture, Navsari Agricultural University, Campus Bharuch	Online mode	15 – 16 <sup>th</sup> July 2020	2 day
95	Dr. P. B. Sandipan	Secondary Agriculture for Agricultural Income Enhancement" organized by Department of Horticulture, Rajasthan College of Agriculture, Maharana Pratap University of Agriculture & Technology, Udaipur (Rajasthan) under IDP-NAHEP (ICAR), New Delhi	Online mode	9 <sup>th</sup> April 2021	1 day
96	Dr. P. B. Sandipan	IDP-NAHEP sponsored International Webinar on "Climate Resilient Agriculture for Food and Health Security" organised by Department of Agronomy, Rajasthan College of Agriculture, Maharana Pratap University of Agriculture & Technology, Udaipur (Rajasthan)	Online mode	16 <sup>th</sup> April 2021	1 day
97	Dr. P. B. Sandipan	National Webinar on "Beekeeping: Opportunities and Challenges" organized by AICRP (Honeybee and Pollinator), Division of Entomology, Sher-e-Kashmir University of Agricultural Sciences and Technology of Jammu, J&K (UT)	Online mode	20-21 <sup>st</sup> May, 2021	2 days
98	Dr. P. B. Sandipan	Best Parenting Tips During Covid-19 by Parikshit Jobanputra organized by Career Counseling & Placement Cell (CCPC) Maharaja Ganga Singh University, Bikaner (Raj.)	Online mode	29 <sup>th</sup> May 2021	1 day
99	Dr. P. B. Sandipan	Effective and Improved Techniques of Soybean Production organized by Directorate of Research, Agricultural	Online mode	11 <sup>th</sup> June 2021	1 day



Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
		Research Station, Ummedganj, Kota			
100	Dr. P. B. Sandipan	Cold Chain Technologies, Convergence and Capacity Building organized by ASSOCHAM, The Associated Chambers of Commerce and Industry of India, New Delhi-110001	Online mode	17 <sup>th</sup> June, 2021	1 day
101	Dr. P. B. Sandipan	<i>MADHMAKHI PALAN</i> jointly organized by Department of Agricultural Entomology, B. A. College of Agriculture, AAU, Anand and NAHEP-CAAST, AAU, Anand	Online mode	19-20 <sup>th</sup> June, 2021	2 days
102	Dr. P. B. Sandipan	Role of Microorganisms in Resilient Agriculture” under the Aegis of World Bank-ICAR Funded National Agricultural Higher Education Project (NAHEP) organized by Swami Keshwanand Rajasthan Agricultural University, Bikaner (Raj.)	Online mode	5 <sup>th</sup> July, 2021	1 day
103	Dr. P. B. Sandipan	Opportunities for Innovation and Entrepreneurship in Agriculture organized by University Student Start-up Cell, NAU, Navsari under the NAHEP-CAAST sub-project, NAU, Navsari	Online mode	13 <sup>th</sup> July, 2021	1 day
104	Dr. P. B. Sandipan	Role of Legumes and Pulses in Sustainable Cropping System of Hot Arid Zone” under the Aegis of World Bank-ICAR Funded National Agricultural Higher Education Project (NAHEP) organized by Swami Keshwanand Rajasthan Agricultural University, Bikaner (Raj.)	Online mode	17 <sup>th</sup> July, 2021	1 day
105	Dr. P. B. Sandipan	<i>Polyhouse napakoma rog-jivatvyavsthapan</i> jointly organized by Department of Plant Pathology, Agril Entomology and Nematology, B. A. College of Agriculture and NAHEP-CAAST, AAU, Anand	Online mode	23 <sup>rd</sup> July, 2021	1 day
106	Dr. P. B. Sandipan	Capacity Building Series Knowledge Session” with Mr. Saurabh Kaushik, India’s Premier Business Coach organized by ASSOCHAM, The Associated Chambers of Commerce and Industry of India, New Delhi-110001	Online mode	5 <sup>th</sup> August, 2021	1 day
107	Dr. P. B. Sandipan	Invasive Pests and Diseases Problem in Indian Agriculture” jointly organized by the Dept. of Ento. and Plant Pathology, N. M. College of Agriculture, NAU, Navsari	Online mode	7 <sup>th</sup> August, 2021	1 day
108	Dr. P. B. Sandipan	Recent Advances in Production Technology and Value Addition of Coconut” organized by AICRP-Palms, Regional Horticultural Research Station and ASPEE College of Horticulture and Forestry, NAU, Navsari	Online mode	9 <sup>th</sup> August, 2021	1 day
109	Dr. P. B. Sandipan	Role of Farmer Producer Organizations (FPOs) in Linking Farmers to Markets organized by ASPEE Agribusiness Management Institute (AABMI), NAU, Navsari	Online mode	12 <sup>th</sup> August, 2021	1 day



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Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
110	Dr. P. B. Sandipan	Severe Acute Malnutrition organized by ASSOCHAM, The Associated Chambers of Commerce and Industry of India, New Delhi- 110001	Online mode	12 <sup>th</sup> August, 2021	1 day
111	Dr. P. B. Sandipan	Capacity Building Series Knowledge Sessions on Digital Marketing Part 1 organized by ASSOCHAM, The Associated Chambers of Commerce and Industry of India, New Delhi-110001	Online mode	16 <sup>th</sup> September, 2021	1 day
112	Dr. P. B. Sandipan	Capacity Building Series Knowledge Sessions on Digital Marketing Part 2 organized by ASSOCHAM, The Associated Chambers of Commerce and Industry of India, New Delhi- 110001	Online mode	24 <sup>th</sup> September, 2021	1 day
113	Dr. P. B. Sandipan	Capacity Building Series Atmanirbhar Bharat Moving Towards Self Reliant India – Leadership Session with Accomplished Women organized by ASSOCHAM, The Associated Chambers of Commerce and Industry of India, New Delhi- 110001	Online mode	8 <sup>th</sup> October, 2021	1 day
114	Dr. P. B. Sandipan	Capacity Building Series Atmanirbhar Bharat Moving Towards Self Reliant India – Leadership Virtual Session with Ms. Palak Mehta (Founder & CEO, Vegan First) on November 29, 2021 organized by ASSOCHAM, The Associated Chambers of Commerce and Industry of India, New Delhi- 110001	Online mode	29 <sup>th</sup> November, 2021	1 day
115	Dr. P. B. Sandipan	Maintenance of the Quality and Safety of Horticultural and Food Crops through Biological Control of Pests and Diseases	Pesticide Residue Analysis, NMCA, NAU, Navsari. Sponsored by NAHEP-CAAST, NAU, Navsari	30 <sup>th</sup> December, 2021	1 day
116	Dr. P. B. Sandipan	Faculty Development Program on “Tasar Sericulture: A Livelihood for Tribal Population of India”	Faculty of Agriculture, Sri Sri University, Cuttack, Odisha-754 006.	8 <sup>th</sup> January, 2022	1 day
<b>2022-23</b>					
117	Dr. P. R. Parmar	UGC-SAP and DST-FIST sponsored International Conference on Path and Prospects in Applied Biosciences	Department of Biosciences, Veer Narmad South Gujarat University, Surat, Gujarat, India	30-31 <sup>st</sup> July 2022	2 days
118	Dr. P. R. Parmar Dr. Rajkumar B. K.	5 <sup>th</sup> Plant Science Researchers Meet: National Conference on Agriculture, Applied and Life Science: Current Research	PLANTICA Association of Plant Science Researchers (APSR) Dehradun, Uttarakhand, India	Online 18-19 November, 2022	2 days
119	Dr. D. H. Patel Dr. Rajkumar B. K. Dr. H. R. Ramani Dr. V. K. Vekariya Dr. K. B. Sankat	National Symposium on Paradigma shift in Cotton Cultivation	Maharana Pratap University of Agriculture and Technology, Udaipur – 313 001	8 – 10 August, 2022	3 days
120	Dr. D. H. Patel Dr. Rajkumar B. K. Dr. H. R. Ramani Dr. V. K. Vekariya	Emerging Innovations in Plant Molecules for Achieving Food and Nutritional Security (EIPMAFNS-2022)	Department of PMBB, ACHF, NAU, Navsari & Division of Biochemistry, ICAR-IARI, New Delhi in association with Society for Plant Biochemistry and Biotechnology, New Delhi	22nd and 23 <sup>rd</sup> September 2022	2 days
121	Dr. H. R. Desai, Dr. G. R. Bhandari Dr. R. D. Patel	Cotton Technical Program Meeting of the SAUs of Gujarat	Seminar Hall, Cotton Research Station, JAU, Junagadh	26/04/2022	1 day



Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
122	Dr. H. R. Desai	Online Meet on Guidance of Deducting Tax on GPF income of	Google meet	02/05/2022	1 day
123	Dr. H. R. Desai, Dr. G. R. Bhanderi Dr. R. D. Patel	Khedut Din-Sorghum	Maheswari Bhawan, Research Scientist (Sorghum), MSRS, NAU, Surat 272, Science City Road, Surat	05/05/2022	1 day
124	Dr. H. R. Desai, Dr. G. R. Bhanderi Dr. R. D. Patel	Fourth Meeting of Post Graduate Research Approval Group (PGRAG) of Plant Protect	Dept. of Entomology and Plant Pathology, NMCA, NAU, Navsari	06/05/2022	1 day
125	Dr. H. R. Desai	Software training	Central Examination Hall	16/06/2022	1 day
126	Dr. H. R. Desai	26th IBSC of NAU	Hybrid mode	22/06/2022	1 day
127	Dr. H. R. Desai	27th IBSC of NAU	Video Conferencing	27/12/2022	1 day
128	Dr. H. R. Desai, Dr. G. R. Bhanderi Dr. R. D. Patel	Participate and poster presentation of research paper in National Symposium on "Validation of IPM module for management of pink bollworm (Pectinophoragossypiella Saunders) in Bt cotton"	MPUAT, Udaipur	8-10/08/2022	3 days
129	Dr. H. R. Desai, Dr. G. R. Bhanderi Dr. R. D. Patel	Participation in 5th meeting of PGRAG (Crop Protection) at NAU, Navsari	Navsari	19/01/2023	1 day
130	Dr. K. B. Sankat	Brain Storming Workshop entitled Natural Resource Management for Sustainable Livelihood Security	NAU, Navsari	09/02/2023	1 day
131	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Capacity Building Series Atmanirbhar Bharat Moving Towards Self Reliant India- Virtual Training Session on Emotional Intelligence and Communication Skill for Effective Performance Part 1	Online, virtual	February 05, 2022	Half day
132	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Capacity Building Series Atmanirbhar Bharat Moving Towards Self Reliant India- Virtual Training Session on Emotional Intelligence and Communication Skill for Effective Performance Part 2	Online, virtual	February 14, 2022	Half day
133	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Investing in Adolescent Nutrition and Health: A Call to Action	Online, virtual	February 25, 2022	Half day
134	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Prakrik Krishi Pak Saraksan	AAU, Anand	05 April, 2022	Full day
135	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Citrus: Production is not enough-A wakeup call on Post harvest Handling, Processing Technology and Value Chain Management	Online, Sonipat	11 <sup>th</sup> April, 2022	Full day
136	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Emerging Agricultural Marketing Trends and Challenges	Online, virtual	29 <sup>th</sup> and 30 <sup>th</sup> April, 2022	Two days
137	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Satellite Farming	Online, virtual, AAU, Anand	09 <sup>th</sup> and 10 <sup>th</sup> May, 2022	Two days
138	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Paradigm Shift in Cotton Cultivation	Udaipur	08- 10 August, 2022	Three days
139	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Emerging Innovations in Plant Molecules for Achieving Food and Nutritional Security	NAU, Navsari	22-23 September, 2022	Two days
140	Dr.M.M.Patel Associate Research Scientist (Agronomy)	National Conference on "Innovative Resource Management Approaches for Coastal and Inland Ecosystems to Sustain Productivity and Climate	Navsari	October 13-15, 2022	3 days



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Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
		Resilience" organized by NAU, Navsari, Gujarat			
141	Dr. H. R. Desai Dr. G. R. Bhanderi Dr. P. B. Sandipan Dr. R. D. Patel	JAMINJANYA ROG – JIVATTONU SANKALIT NIYANTRAN" state level seminar	PPAG and Junagadh Agricultural University, Junagadh at JAU, Junagadh.	24th February, 2023	1 day
<b>2023-24</b>					
142	Dr. H. R. Desai Dr. G. R. Bhanderi Dr. R. D. Patel	28 <sup>th</sup> Meeting of IBSC NAU	NAU, Navsari (Virtual mode) organized by Member Secretary, IBSC NAU, Surat	June 19, 2023	1 day
143	Dr. Rajkumar B. K.	Awareness program on NABL Accreditation and its benefits	NABL, Haryana	3 <sup>rd</sup> Sep.2023	1 day
144	Dr. P. B. Sandipan	State level seminar on "Pak Sarakshan Ane Bazar VavyasthapanSamasya Ane Samadhan"	Plant Protection Association of Gujarat (PPAG), Anand on	30.09.2023.	1 day
145	Dr. P. B. Sandipan	Participated in the 5 <sup>th</sup> International Conference "Global Insights on Research and Development in Agriculture, Horticulture and Allied Sciences"	G. H. Raisoni University, Saikheda (MP) JUST AGRICULTURE EDUCATION GROUP & AEEFWS, Chandigarh at G. H. Raisoni University, Saikheda (MP).	05-07 Oct., 2023	3 days
146	Dr. V. K. Vekariya Dr. G. O. Faldu Prof. D. M. Patel Dr. H. R. Desai Dr. G. R. Bhanderi Dr. R. D. Patel Dr. P. B. Sandipan Dr. M. M. Patel Dr. P. S. Patel Dr. K. B. Sankat	National conference on Transformation of Agro technologies for enhancing production under diverse Agro-Ecosystem organised	CoA, NAU, Waghai	12-14 Oct, 2023	3 days
147	Dr. H. R. Desai Dr. G. R. Bhanderi Dr. R. D. Patel	Rabi Krushi Mahotsav	Bhatlai, Tal. Choryasi organized by State Deptt. Agriculture	November 24-25, 2023	2 days
148	Dr. P. R. Parmar Dr. Rajkumar B. K. Dr. D. H. Patel Dr. K. B. Sankat Dr. M. C. Patel Dr. H. R. Desai Dr. H. R. Ramani Dr. G. R. Bhanderi Dr. R. D. Patel	9 <sup>th</sup> Asian Cotton Research and Development Network meeting & International Conference	Indian Society for Cotton Improvement (ISCI), CIRCOT, Matunga, Mumbai, India	06 <sup>th</sup> - 08 <sup>th</sup> December, 2023.	3 days
149	Dr. P. B. Sandipan	Attended 1st International Agriculture Conference on "NATURAL V/S ORGANIC FARMING IN: CONTEXT TO BHARATIYA AGRICULTURE"	Gujarat Natural Farming and Science University, Anand, Hindustan Agricultural Research Welfare Society and IIMTU, Meerut Held by Hybrid Mode, Bagadpur Krishi Bhavan, NH 24, Delhi Road, Moradabad (UP) 24401.	24-26th December, 2023	3 days
150	Dr. Rajkumar B. K. Dr. P. B. Sandipan	International Conference on Impact of Climate Changes on Global Food, Livestock, Livelihood and Environmental Security, Advanced Approaches and Mitigation Strategies (ICCGFLLES-2023)	NAU, Navsari, Gujarat and NADCL, Baramulla, UT of J&K in collaboration with ICAR-NAHEP, Centre for Advanced Agricultural Science & Technology (CAAST), NAU, Navsari held at Main Campus, Navsari Agricultural University, Navsari, Gujarat.	28 to 30 December, 2023	3 days

Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
151	Dr. P. R. Parmar Assistant Research Scientist (Microbiology)	National conference on Recent Advances in Sustainable Approaches for Biological Sciences	Department of Biotechnology, Veer Narmad South Gujarat University, Surat, Gujarat, India	29 <sup>th</sup> -31 <sup>st</sup> January, 2024	3 days
<b>2024-25</b>					
152	Dr. K. B. Sankat Dr. V. K. Vekariya	State level Seminar on “Amrutkalma Krushi Pedashona Prasansakaran ane Mulyavardhan” organized by Gujarat Association of Agriculture Sciences, Ahmedabad	Ahmedabad	31/08/2024	1 day
153	H. R. Ramani Dr. K. B. Sankat Dr. Rajkumar B. K. Dr. P. S. Patel	International conference on Innovative technologies for Research and development for sustainable production of cotton, oilseeds and fibre crops	KVK, CCARI, ELA Old Goa	November, 13-15, 2024	3 days
154	Dr. P. S. Patel	ISWS Biennial Conference on “Climate-smar Weed Management for Global Food Security” organized by BHU, Varanasi, Uttar Pradesh	Banaras Hindu University, Varanasi, Uttar Pradesh	28-30 November, 2024	3 days
155	Dr. K. B. Sankat	International Conference on Trailblazing Trends in Sustainable Climate-Resilient Precision Agriculture through Artificial Intelligence and Remote Sensing organized by JAU, Junagadh	JAU, Junagadh	23 to 24 January, 2025	2 days
156	Dr. V. K. Vekariya	XVI I IVasantrao Naik Memorial National Seminar on Interventions of Climate Resilient Technologies for Regeneration of Farming Systems	PDKV, Akola	March 11-12, 2025	2 Days
157	Dr. Prashant B. Sandipan	2 <sup>nd</sup> International Agriculture Conference on “Natural Farming Innovations: Enhancing Soil Health and Seed Quality with AI and Drones for a Greener Agricultural Future”	Organized by Gujarat Natural Farming and Science University, Halol, Indian Society of Genetics and Plant Breeding, ICAR, Hindustan Agricultural Research Welfare Society, Agra, Southern Federal University, Russia, Cambridge International Agricultural Organization, CIAO, CIMMYT and others Held by Hybrid Mode, Hansraj College, University of Delhi, 110 007.	3-5 <sup>th</sup> November, 2024 (Online miode)	3 days
158	Dr. Prashant B. Sandipan	National Training Programme cum Poster Presentation on the subject “Agriculture – Sustainable & Profitable Venture for Farmers”	The Department of Agriculture, 360 Research Foundation from at Mathura, Narkatiaganj, Bihar, India in Hybrid mode.	23 <sup>rd</sup> to 25 <sup>th</sup> December, 2024	3 days
<b>2025-26</b>					
159	H. R. Ramani Assistant Rsearch Scientist	International conference at School of Agriculture & Technology Maya Devi University	Dehradun	25-27 July, 2025.	3
160	Dr. Preeti R Parmar Dr. Rajkumar B K	Attended online training on J-Gate Next Awareness training	Navsari Agricultural University, Navsari	12.06.2025	One day
161		Participated in National Seminar on “Application of AI in Biological Sciences”	Department of Biotechnology, VNSGU, Surat	27.12.2025	One day
162		Attended online webinar on “ Financial Awarness”	Knowledge Consortium of Gujarat, Education Department, GoG	16.12.2025	One day
163	Dr. Preeti R Parmar	Participated online International Conference on “Recent Trends in Plant Microbe Interaction”	PG and Research Dept. of Botany and Microbiologist’s Society of	03.02.2026	One day



Sr. No.	Name & Designation	Details of Seminar/Symposium/Conference	Place	Date	Duration
			India (MBSI) on 03.02.2026.		
167	Dr. Prashant B. Sandipan	National Conference on Indigenous Knowledge system for sustainable future- A Roadmap to Viksit @ 2047	College of Horticulture and Forestry, Thunag, Mandi (HP)	13-14 <sup>th</sup> February, 2025	2 days
168		Mushroom Uchair Ane Mushroom Utpadan: Samasya Ane Samadhan”	PPAG & Navsari Agricultural University (NAU), Navsari	03.09.2025	1 day
169		12 <sup>th</sup> International Conference (ICAVRI-2025) on “Agriculture & Veterinary Transformative approach, Research & Innovation Forum”	Online mode (Goa College of Agriculture, Goa)	16-18 <sup>th</sup> November, 2025.	3 days
170	Dr. M.M. Patel	6 <sup>th</sup> International Agronomy Congress	New Delhi	November, 24-26, 2025	03
171	Dr. D. H. Patel Dr. K. B. Sankat	Vibrant Gujarat Regional Conference (Kutch and Saurashtra)	Rajkot	11-12 <sup>th</sup> Jan., 2026	2 days

#### PARTICIPATION IN SUMMER/WINTER SCHOOL/REFRESHER COURSE

Sr. No.	Name & Designation	Details of Summer/Winter school	Place	Date	Duration
<b>2016-17</b>					
1.	Dr. V. K. Vekariya Assist. Res. Scientist MCRS, NAU, Surat	Genomics and Phonemics for enhancement of crop nutrient use efficiency	ICAR-National Research Centre on Plant Biotechnology, IARI, New Delhi	01-21/09/2016	21 Days
2.	Shri. K. B. Sankat Assist. Res. Scientist MCRS, NAU, Surat	Agro ecological Strategies for Designing Sustainable Farming Systems	University of Agricultural Sciences (UAS), Raichur, Karnataka	01-21/12/2016	21 Days
3.	Dr. Rajkumar B. K. Assistant Research Scientist (Pl. Biotech.), MCRS, NAU, Surat	Utilization of Genetic & Genomic Resources through Biotechnology for Biotic & Abiotic Stress Management & Quality Improvement in Field Crops	Department of Biotechnology, College of Agriculture, University of Agricultural Sciences (UAS), Dharwad	01-21/12/2016	21 Days
		Exploring Genomic Resources for the Improvement of Horticultural Crops	Department of Biotechnology and Crop Improvement, College of Horticulture, UHS Campus, GKVK Post, Bangalore 65.	01-21/07/2016	21 Days
<b>2017-18</b>					
1	Dr. H. R. Ramani Assist. Res. Scientist	Genomics, Proteomics and Metabolomics in crop improvement	Junagadh Agriculture University, Junagadh	04/09/2017 to 24/09/2017	21 days
2	Dr. P. R. Parmar Assist. Res. Scientist				
3	Dr. G. R. Bhandari, Assist. Res. Scientist	Pest Risk Analysis – A Tool in Selection of Quality Planting Material and Pest Forecast”	ASPEE College of Horticulture & Forestry, NAU, Navsari	01/11/2017 to 21/11/2017	21 days
4	Dr. R. D. Patel, Assist. Res. Scientist				
<b>2018-19</b>					
1	Prashant B. Sandipan Assistant Research Scientist	Completed ICAR sponsored training programme on “Advances in Agricultural Techniques to enhance crop production: Towards climate resilient agriculture”	ICAR- Centre for Advances Faculty Training on Plant Biotechnology, Rajasthan Agricultural Research Institute (Sri Karan Narendra Agriculture University, Jobner), Durgapura, Jaipur (Rajasthan)	December 10th –30th, 2018	21 days
2	Dr. R. D. Patel, Asstt. Res. Sci. (Ento)	Training on “Advances in the managementof Agriculturally important insects”	Department of Entomology, PAU, Ludhiana	Nov. 13, 2018 to Dec. 03, 2018	21 days
3	H. R. Ramani, Assist. Res. Scientist	Phytoremediation: Challenges and scope under heavy metal stress	Department of Plant breeding and Genetics, SDAU,SKnagar	10th to 30th July, 2018	21 days
4	Dr. P. R. Parmar, Assistant Research Scientist	Phytoremediation: Challenges and scope under heavy metal stress	Department of Genetics and Plant breeding, C. P. College of Agriculture, SDAU, Sardarkrushinagar	10th to 30th July, 2018	21 days



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Sr. No.	Name & Designation	Details of Summer/Winter school	Place	Date	Duration
<b>2019-20</b>					
1	Dr. K. B. Sankat	Summer School Training on “Soil Health Management and Plant Nutrition under Changing Climate Scenario”	Rajasthan Agriculture Research Institute, Durgapura, Jaipur, Rajasthan (Shri Karan Narendrasinh Agriculture University, Jobner)	02-09-2019 to 22-09-2019	21 days
<b>2020-21</b>					
1	Dr. G. R. Bhandari, Asstt. Res.Sci. (Ento)	Online training on “Rodent Pest Management”	NIPHM, Hyderabad	October 26-30, 2020	05 days
2	Dr. R. D. Patel, Asstt. Res.Sci. (Ento)	Vertebrate Pest Management: Wild boar, monkey and birds	NIPHM, Hyderabad	February 03-05, 2021	03 days
3	Dr. R. D. Patel, Asstt. Res. Sci. (Ento)	“Recent Advances in Entomology – New Dimensions to Invigorate the Insect Pest Management”	Department of Entomology, College of Horticulture, Bidar, Karnataka	December 7-18, 2020	12 days
4	Dr. P. B. Sandipan	One Week Faculty Development Programme on “RESEARCH METHODOLOGY”	School of Sciences, P. P. Sawani University, Surat (Gujarat).	05 <sup>th</sup> to 11 <sup>th</sup> October, 2020	07 days
<b>2022-23</b>					
1	Dr. H. R. Ramani Dr. P. S. Patel	Advances in Agricultural Waste Management for Environmental Safety, Soil Health Management and Energy Production	Department of Soil Science and Agricultural Chemistry, SKN College of Agriculture, Sri Karan Narendra Agriculture University Jobner, Dist.- Jaipur (Rajasthan)–303 329	18/01/23 to 07/02/2023	21 days
2	Dr. V. K. Vekariya	Water Productivity Enhancement in Scarcity Zones Approaches and Applications	CNRM, SDAU, Dantiwada	18 <sup>th</sup> January to 7 <sup>th</sup> February, 2023	21 days
<b>2023-24</b>					
1	Dr. P. B. Sandipan	Actively participated in the 03 days sponsored short training programme on “Video Production and Dissemination Skills for Agricultural Extension Functionaries”	KVK, Surat, DEE, NAU, Navsari (Gujarat) and Extension Education Institute (EEI), AAU Campus, Anand (Gujarat) at KVK, Surat.	29-31 May, 2023	3 days
2	Dr. P. B. Sandipan	Actively participated in the 03 days sponsored short training programme on “Mushroom Cultivation”	Jointly organized by College of Agriculture, NAU, Waghai (Gujarat) and Extension Education Institute (EEI), AAU Campus, Anand (Gujarat) at College of Agriculture, NAU, Waghai (Gujarat).	20-22 July, 2023	3 days
3	Dr. P. B. Sandipan	Successful participation in the “3 Days Faculty Development Program” on “Constructive Research Methodology and Successful Publication”	Jointly organized by SGT University, Gurugram and Just Agriculture Education Group	23 <sup>rd</sup> – 25 <sup>th</sup> September, 2023	3 days
4	Dr. Rajkumar B. K.	From Genes to Proteins: Addressing Molecular Complexity of Agriculturally Important Traits in Crops	RLBCAU, Jhansi, Uttarpradesh	Feb 19 - Mar 10, 2024	21 days
5	Dr. P. R. Parmar	Advances in Vedic, Natural and Organic farming in relation to pest and disease management under climate change”	Dept. of Pathology, C. P. College of Agriculture, S. D. Agricultural University, Sardarkrushinagar – 385 506, Gujarat	28 <sup>th</sup> February to 19 <sup>th</sup> March, 2024.	21 days
<b>2024-25</b>					
1	Dr. R. D. Patel	Training on “Advances in Vedic, Natural and Organic Farming in relation to Pest and Disease	SDAU, Sardarkrushinagar	28/02/24 to 19/03/24	20 days



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Sr. No.	Name & Designation	Details of Summer/Winter school	Place	Date	Duration
		Management under Climate Change” organized by Department of Plant Pathology, C. P. College of Agriculture, S. D. Agricultural University, Sardarkrushinagar			
2	Dr. P. S. Patel	Short Course on Hands-On Training on Statistical Analysis & Exploring the Role of Agriculture in Industry Domains organized by Indian Society of agronomy, New Delhi	Online	22-31 August, 2024	10 days
3	Dr. K. B. Sankat	15 Days Short Course Training on Climate Change Scenario : Impact on Agriculture and Allied Sciences organized by Astha Foundation, Meerut, Uttar Pradesh in collaboration with different ICAR and State Institutes	Online Mode	16-9-2024 to 30-09-2024	15 days
4	Dr. Prashant B. Sandipan	Successful attended in the “Krishi Manthan: 30 Days Summer School International Training Program”	Sri Konda Laxman Telangana State Horticultural University (SKLTSHU), Talangana in collaboration with UTKARSH – PDKV, Akola, Just Agriculture Education Group, ISASTR, Noida (Online mode)	15 <sup>th</sup> July to 15 <sup>th</sup> August, 2024.	30 days

#### PARTICIPATION IN WORKSHOP/SHORT TERM TRAINING

Sr. No.	Name & Designation	Details of Workshop/ Short term training	Place	Date	Duration
<b>2016-17</b>					
1	Dr. B. G. Solanki, Research Scientist (Cotton), NAU, Surat	Annual Group Meeting on cotton (AGM-AICCI) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
2	Dr. K. V. Varodariya, Asso. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCI) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
3	Dr. D. H. Patel Asso. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCI) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
4	Dr. H. R. Desai Asso. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCI) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
5	Dr. G. O. Faldu Assitt. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCI) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
6	Prof. D. M. Patel Assitt. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCI) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
7	Dr. G. R. Bhandari Assitt. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCI) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
8	Prof. K. B. Sankat Assitt. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCI) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
9	Dr Rajkumar B Katagi Assitt. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCI) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
10	Prof. V. K. Vekaria Assitt. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCI) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days



Sr. No.	Name & Designation	Details of Workshop/ Short term training	Place	Date	Duration
11	Dr. P. B. Sandipan Assitt. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCP) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
12	Dr. H. R. Ramani Assitt. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCP) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
13	Dr. R. D. Patel Assitt. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCP) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
14	Dr. Preeti R Parmar Assitt. Res. Sci., NAU, Surat	Annual Group Meeting on cotton (AGM AICCP) and interactive meet on PBW	APMC, Sahara Darwaja, Surat	April 7-9, 2016	3 days
<b>2017-18</b>					
1	Dr. H.R. Desai	AGM of AICRP on Cotton	TNAU, Coimbatore	8 <sup>th</sup> to 10 <sup>th</sup> April, 2017	3 days
2	Dr. D. H. Patel	AGM of AICRP on Cotton	TNAU, Coimbatore	8 <sup>th</sup> to 10 <sup>th</sup> April, 2017	3 days
3	Dr. S. L. Pawar	AGM of AICRP on Cotton	TNAU, Coimbatore	8 <sup>th</sup> to 10 <sup>th</sup> April, 2017	3 days
4	Prof. D. M. Patel	AGM of AICRP on Cotton	TNAU, Coimbatore	8 <sup>th</sup> to 10 <sup>th</sup> April, 2017	3 days
5	Dr. G. O. Faldu	AGM of AICRP on Cotton	TNAU, Coimbatore	8 <sup>th</sup> to 10 <sup>th</sup> April, 2017	3 days
6	Dr. G. R. Bhanderi	AGM of AICRP on Cotton	TNAU, Coimbatore	8 <sup>th</sup> to 10 <sup>th</sup> April, 2017	3 days
7	Dr. P. B. Sandipan	AGM of AICRP on Cotton	TNAU, Coimbatore	8 <sup>th</sup> to 10 <sup>th</sup> April, 2017	3 days
8	Prof. V. K. Vekariya	AGM of AICRP on Cotton	TNAU, Coimbatore	8 <sup>th</sup> to 10 <sup>th</sup> April, 2017	3 days
<b>2018-19</b>					
1	Dr. D. H. Patel	Annual Group Meeting of AICRP on cotton	CCS, Haryana Agricultural University	9-10/4/2018	2 Days
2	Dr. H. R. Desai & Dr. G. R. Bhanderi	Group Meeting of AICRP on Cotton	CCSHAU, HISAR	9-10/04/ 2018	02 days
3	Dr. H. R. Desai & Dr. R. D. Patel	Implementation of "Insecticide Resistance Management" : Dissemination of pink bollworm management strategies	ICAR-CICR, Nagpur	14/08/2018	01 days
4	Dr. H. R. Desai & Dr. R. D. Patel	Review workshop of "Insecticide Resistance Management" : Dissemination of pink bollworm management strategies	ICAR-CICR, Nagpur	23/02/2019	01 days
5	Dr. H. R. Ramani	Annual Group Meeting of AICRP on cotton	CCS, Haryana Agricultural University	9-10/4/2018	2 Days
6	Prashant B. Sandipan	Annual Group Meeting on cotton (AGM-AICRP) held on at CCS organized by ICAR-AICRP cotton.	Haryana Agricultural University (HAU), Hisar	April 9-10, 2018	2 days
7	Prashant B. Sandipan	Actively participated in the virtual Workshop on Personality Development held on organized by International Science Community Association www.isca.net.co).	Online	August 05 <sup>th</sup> - 10 <sup>th</sup> , 2018	Online participation
<b>2019-20</b>					
1	Dr. G. R. Bhanderi	Training on "Making greater use of biocontrol agents"	Department of Plant Pathology, AAU, Jorhat	November 4-13, 2019	10 days



Sr. No.	Name & Designation	Details of Workshop/ Short term training	Place	Date	Duration
2	Dr. H. R. Ramani	Short term online "Prakrutik Kheti karyashala"	Dada Bhagwan Mandir, Kamrej	December 5-11,2019	7days
<b>2020-21</b>					
1	Dr. H. R. Desai, Dr. D. H. Patel, Dr. K.V. Vadodariya, Dr. G. O. Faldu, Prof. D. M. Patel, Dr. R. D. Patel, Dr. G. R. Bhanderi, Dr. Rajkumar, Dr. H. R. Ramani, Prof. V. K. Vekariya, Dr. K. B. Sankat, Dr. P. R. Parmar	Group Meeting of ICAR-AICRP on Cotton	Project Co-ordinator, ICAR-AICRP on Cotton, CICR, Coimbatore	17/05/2020 & 18/05/2020	02
2	Dr. H. R. Desai, Dr. R. D. Patel, Dr. G. R. Bhanderi, Shri Divyesh Patel and Kumari Anjali Patel	Review meeting of NFSM: CC: Cotton: IRM: PBWM: Dissemination of pink bollworm management strategies	ICAR-CICR, Nagpur (Online video conference through CISCO WEBEX VC app)	03/06/2020	01
3	Dr. H. R. Desai, Dr. R. D. Patel, Dr. G. R. Bhanderi, Shri Divyesh Patel and Kumari Anjali Patel	Orientation workshop, NFSM:CC: Cotton: IRM: PBWM	Principal Investigator, NFSM:CC: Cotton: IRM: PBWM, ICAR-CICR, Nagpur	09/07/2020	01
4	Dr. H. R. Desai, Dr. D. H. Patel, Dr. K.V. Vadodariya, Dr. G. O. Faldu, Prof. D. M. Patel, Dr. R. D. Patel, Dr. G. R. Bhanderi, Dr. Rajkumar, Dr. H. R. Ramani, Prof. V. K. Vekariya, Dr. K. B. Sankat, Dr. P. R. Parmar	Review meeting of ICAR-AICRP on Cotton and Bt testing trials	Project Co-ordinator, ICAR-AICRP on cotton, Coimbatore	22/07/2020	01
5	Dr. H. R. Desai, Dr. R. D. Patel, Dr. G. R. Bhanderi, Shri Divyesh Patel and Kumari Anjali Patel	Mid-term Review meeting of NFSM:CC:Cotton: IRM: PBWM: Dissemination of pink bollworm management strategies	ICAR-CICR, Nagpur	18/11/2020	01
<b>2021-22</b>					
1	Dr. H. R. Desai, Asso. Res. Sci. (Ento)	Pest Risk Assessment and Eco-friendly Management of Mite Pests in Agriculture organized by Department of Entomology, N.M.College of Agriculture, NAU, Navsari	Online	January 20-29, 2022	10
2	H. R. Ramani Assistant Research Scientist (Biochemistry)	Annual Group Workshop of AICRP on Cotton	Online	9-10 <sup>th</sup> April 2021	2 days
3	H. R. Ramani Assistant Research Scientist (Biochemistry)	Online Workshop on HPTLC Technique and its Applications in Agriculture organized by Department of Plant Molecular Biology and Biotechnology, ASPEE College of Horticulture and Forestry, NAU, Navsari	Online mode	3rd Nov, 2020	1 day
4	H. R. Ramani Assistant Research	Emerging trends in seed production Technology and	Online mode		10 days

Sr. No.	Name & Designation	Details of Workshop/ Short term training	Place	Date	Duration
	Scientist (Biochemistry)	quality control framework for effective seed supply of horticulture crops organized by Department of Horticulture, University of horticulture, Bagalkot			
5	Dr. P. B. Sandipan Assistant Research Scientist (Patho)	International Online Training on “ADVANCES IN AGRIPRENEURSHIP AND SKILL DEVELOPMENT FOR RESHAPING THE FUTURE OF INDIAN AGRICULTURE”	AEEFWA (Agro Environment Education and Farmer’s Welfare Society, Punjab)	01 <sup>st</sup> – 15 <sup>th</sup> August, 2021.	15 days
<b>2022-23</b>					
1	Dr. G. O. Faldu Dr. V. K. Vekariya	Research Methodology and Data Analysis	Gujarat State Biotechnology Mission (GSBTM), DST, India	9 <sup>th</sup> to 15 <sup>th</sup> October, 2022	7 days
2	Dr. H. R. Ramani	Group Meeting of ICAR-AICRP on Cotton	Project Co-ordinator, ICAR-AICRP on Cotton, CICR, Coimbatore	7-9 April, 2022	3 days
3	Dr. K. B. Sankat	State workshop on Sustainability in Cotton	Ahmedabad	22/04/2022	1 day
4	Dr. K. B. Sankat	31 <sup>st</sup> National Conference on Innovative Resource Management approaches for Coastal and Inland Ecosystems to sustain Productivity and Climate Resilience	NAU, Navsari	13/10/2022 To 15/10/2022	3 days
5	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Participated in Annual Group Meeting on Cotton (AGM-AICRP)	Coimbatore	06-08 April, 2022	Three days
6	P. B. Sandipan Asstt. Res. Sci. Plant Pathology	Drone Manthan	Online	20-26 Nov, 2022	7 days
<b>2023-24</b>					
1	Dr. P. B. Sandipan Dr. M. M. Patel Dr. M. C. Patel Dr. D. H. Patel Dr. R. D. Patel Dr. H. R. Ramani	Group Meeting of ICAR-AICRP on Cotton	Project Co-ordinator, ICAR-AICRP on Cotton, CICR at Nagpur	5-6 April, 2024	2 days
2	Dr. V. K. Vekariya Dr. P. B. Sandipan	Group Meeting of ICAR-AICRP on Cotton	Project Co-ordinator, ICAR-AICRP on Cotton, CICR at PAU, Ludhiana	6-7 April, 2023	2 days
3	Dr. H. R. Desai Dr. G. R. Bhandari Dr. R. D. Patel	Cotton Workshop on World Cotton Day	APMC, Nizar	October 7, 2023	1 day
<b>2024-25</b>					
1	Dr. K. B. Sankat	National Workshop on Cotton Yield Improvement through HDPS Organized by ICAR-Central Institute for Cotton Research, Nagpur	ICAR-CICR, Nagpur	7 <sup>th</sup> March, 2025	1 day
2	Dr. V K Vekariya	Short course on “Application of proteomics in Agriculture”	IIRMR, Bharatpur, Rajasthan	20-29 January 2025	10 Days
3	Dr. Prashant B. Sandipan	Annual Group Meeting workshop on Cotton (AGM-AICRP)	Dr. Punjabrao Deshmukh Krishi Vidyapeeth, Akola (M. S.)	05-06 April, 2024.	2 days
4	Dr. M. C. Patel Prof. D. M. Patel, Dr. R. D. Patel,	Group Meeting of ICAR-AICRP on Cotton	Project Co-ordinator, ICAR-AICRP on Cotton, CICR, Lam Guntur	21/03/2025 to 23 /03/2025	3 days



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Sr. No.	Name & Designation	Details of Workshop/ Short term training	Place	Date	Duration
	Dr. Rajkumar, Prof. V. K. Vekariya, Dr. K. B. Sankat, Dr. P. B. Sandipan				
<b>2025-26</b>					
1	H. R. Ramani	Natural Farming for sustainable agriculture	AAU, Anand	17-1-26 to 24-1-26	One week
2	Dr. Preeti R Parmar	Participated in One-Day Workshop cum Demonstration visit on Natural Farming organized	Gujarat Natural Farming Science University, Halol, Panchmahal on 17.02.2026	17-02-2026	One day
3	Dr. Prashant B. Sandipan	Natural Farming and Emerging Technologies (AI, Drones, IoT): Advancing Sustainable Agriculture through Initiatives of the Ministry of Agriculture & Farmers Welfare, Government of India	Hybrid mode	16 <sup>th</sup> August to 16 <sup>th</sup> September 2025 in Hybrid	30 days
4	Dr. R. D. Patel	Training on "Drone technology" organized by Extension Education Institute, AAU, Anand	AAU, Anand	05/01/26 to 10/01/26	06 days
5	Dr. M. C. Patel Dr. D. H. Patel Dr. G. O. Faldu Dr. K. B. Sankat Dr. P. B. Sandipan Dr. H. R. Ramani Dr. R. D. Patel	Group Meeting of ICAR-AICRP on Cotton	Project Co-ordinator, ICAR-AICRP on Cotton, CICR at Nagpur	01/04/2026 to 03/04/2026	3 days

પ. દરેક પાકની GAP(ગુડ એગ્રીકલ્ચરલ પ્રેક્ટાઈસીસ) : મુદ્દા નં. ૩ અને ૪ પ્રમાણે

૬. જે તે ફાર્મની વિગતો નકશા વિ.જમીન/ પાણીનું પૃથ્થકરણ (વર્ષવાર)

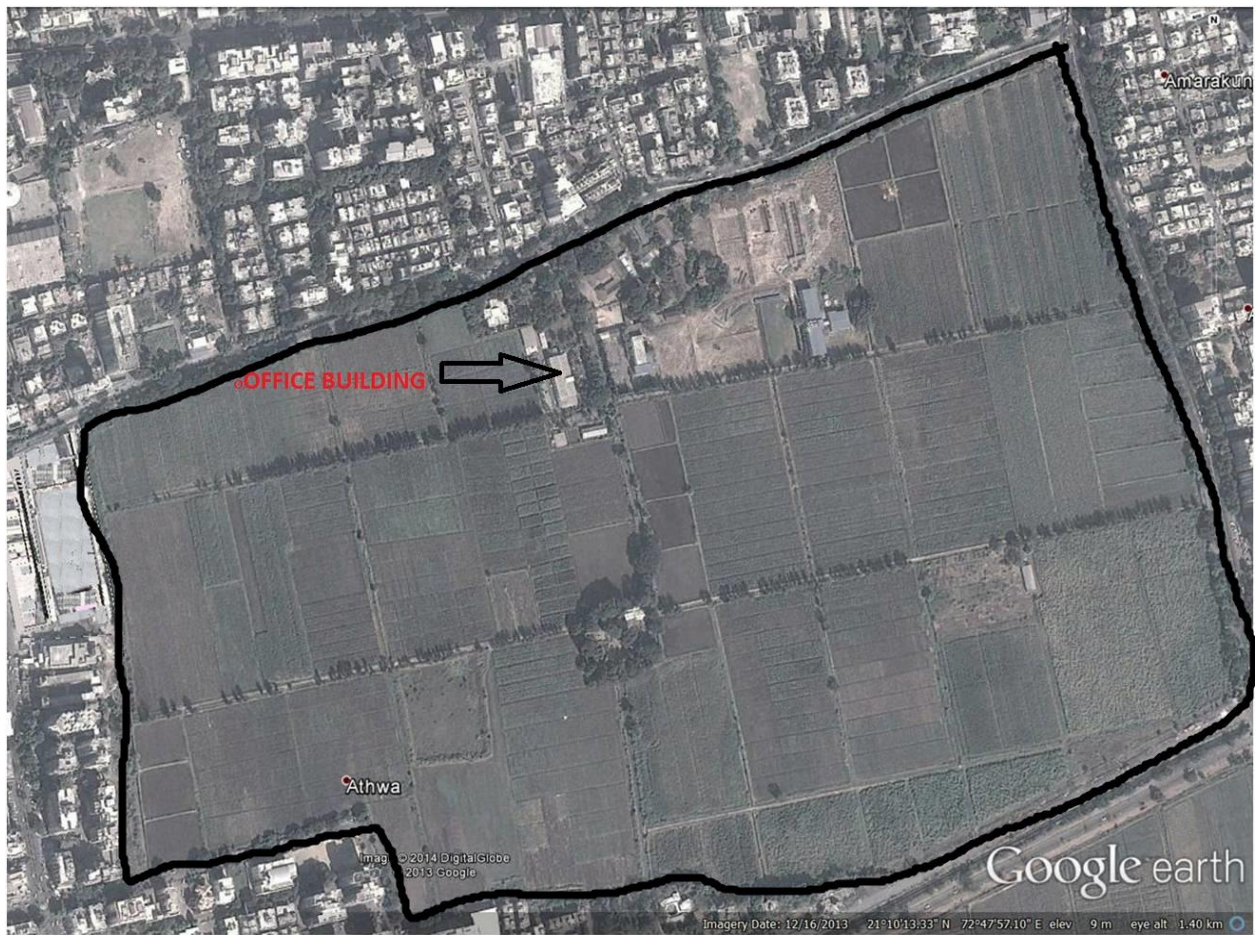
ડીએલઆરની માપણી મુજબ યુનિવર્સિટીના કબજામાં હોય તેવી ખેડખાતાની જમીનની વિગત :

૩૧-૦૩-૨૦૨૩ મુજબ

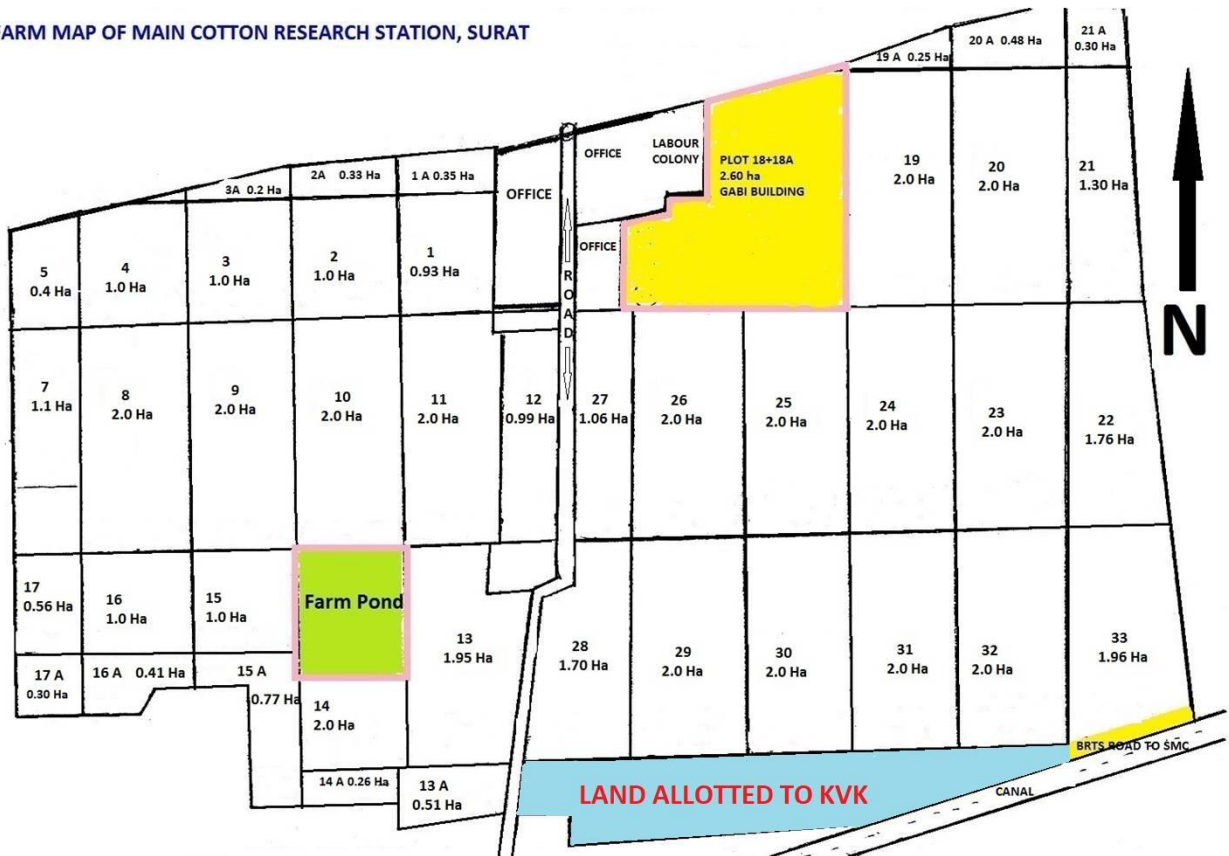
બ્લોક નં./ સર્વે નંબર	ગામ તા: સીટી: જી: સુરત	જમીન પ્રાપ્તિની નોંધ નંબર	કોનાં કબજા હસ્તક	છેલ્લી માપણી વર્ષ	રેવન્યુ મુજબ ક્ષેત્રફળ (હે-આર-ચો.મી.)	હિસ્સા ફોર્મમાં દર્શાવેલ હાલનાં કબજાનું ક્ષેત્રફળ (હે-આર-ચો.મી.)	તફાવત (હે-આર-ચો.મી.)	તફાવતનું કારણ
(૧)	(૨)	(૩)	(૪)	(૫)	(૬)	(૭)	(૮)	(૯)
૭૦	ભટાર	૬૨૯	કપાસ	નવે.૨૦૧૪	૩૯.૫૮.૦૦	૩૪.૫૮.૦૦	૫.૦૦.૦૧	કોલમ નં.૮નો તફાવત હળપતિ
૧૬૧	ઉમરા	૧૨૬૧	કપાસ	મે.૨૦૧૧	૦૬.૬૫.૭૬	૦૦.૫૮.૬૮	૦૦.૦૭.૦૮	આવાસ, નહેર તથા જુદી જુદી ટીપી સ્કીમો
૧૬૨	ઉમરા	૧૨૬૧	કપાસ	મે.૨૦૧૧	૨૯.૯૯.૭૫	૨૫.૬૧.૮૩	૦૪.૩૭.૯૨	માટે ફાળવેલ જમીનનાં કબજો સોંપવાના કારણે
નોંધ : મુખ્ય કપાસ સંશોધન કેન્દ્ર હેઠળ ખેડાણ લાયક જમીન				કુલ		૬૦.૭૮.૫૧	૦૯.૪૫.૦૧	

કુલ જમીન	૬૦.૭૮.૫૧
સંશોધન કેન્દ્રને સંશોધન માટે ફાળવેલ જમીન	
કેવીકે	૦૯.૩૬.૦૦
બાયોટેકનોલોજી	૦૨.૬૦.૦૦
રોડ-રસ્તા, કચેરી, ગોડાઉન	૦૫.૦૦.૦૦
અન્ય સંપાદન હેઠળ ફાળવેલ જમીન	૦૯.૪૫.૦૧
કુલ બાદ	૨૬.૪૧.૦૧
મુખ્ય કપાસ સંશોધન કેન્દ્ર હેઠળ ખેડાણ લાયક જમીન	૩૪.૩૭.૫૦

નમુના ચકાસણી	પૃથ્થકરણની વિગત	કુલ પૃથ્થકરણ										વિભાગ
		૨૦૧૬-૧૭	૨૦૧૭-૧૮	૨૦૧૮-૧૯	૨૦૧૯-૨૦	૨૦૨૦-૨૧	૨૦૨૧-૨૨	૨૦૨૨-૨૩	૨૦૨૩-૨૪	૨૦૨૪-૨૫	૨૦૨૫-૨૬	
<b>મુખ્ય કપાસ સંશોધન કેન્દ્રનાં સંશોધન અખતરાઓ/ પીજી સંશોધન અખતરાઓ અને જનરલ પ્લોટનાં નમુનાઓ</b>												
જમીન ચકાસણી	નાઈટ્રોજન, ફોસ્ફરસ, પોટાશ વિદ્યુત વાહકતા, સલ્ફર, પીએચ આંક તથા સુક્ષ્મ તત્વો જમીનનું ભેજ	૭૬૫	૪૨૪	૯૧૪	૬૮૪	૨૨૯૫	૧૬૫૮	૧૯૯૨	૮૨૦	૧૧૭૪	૧૧૪	બાયોકેમેસ્ટ્રી
કપાસ બીજ	ઓઈલ કન્ટેન્ટ	૨૮૦	૩૦૩	૪૨૬	૪૬૩	૫૬૧	૦૮	—	—	—	—	
કપાસની આશાસ્પદ જાતોનાં પાન, ડુંખ, જીંડવા વિગેરે	બાયોકેમિકલ (ટેનીન, ફીનોલ, ગોસીપોલ, સુગર, પ્રોટીન, એમીનોએસીડ અને અન્ય)	૧૮૮૨	૩૨૮૩	૧૭૮૭	૨૩૧૧	૧૭૮૯	૨૬૩૨	૨૦૬૧	૯૧૪	૨૯૨૪	૪૨૦૪	
પાકનાં નમુના (ઉપદ્રવિત)	રોગ અને જીવાત	૭૦	૬૫	૩૩	૨૧	૭૩	૬૫	૯૫	૬૩	૭૪	—	એન્ટોમોલોજી
<b>મુખ્ય કપાસ સંશોધન કેન્દ્રની આશાસ્પદ નર અને માદા પિતૃઓ તેમજ બીટી સંકર જાતોની ચકાસણી</b>												
એલીસા ટેસ્ટ	Cry1Ac અને Cry2Ab કવોલીટેટીવ અને કવોન્ટીટેટીવ ટેસ્ટ	૭૩૪૮	૭૮૨૦	૭૪૦૦	૬૫૦૦			૨૩૩૪૩	૧૮૯૭૨	૩૯૦૬	૧૩૬૧૦	બાયોટેકનોલોજી
પીસીઆર ટેસ્ટ	—	૬૨૦	૭૦૦	૬૨૦	૪૭૫	૧૭૨૯૮	૧૫૦૮૭	—		૧૩૦	૭૫	



FARM MAP OF MAIN COTTON RESEARCH STATION, SURAT



*Handwritten signature*