Group Name: Cereals

Crop name: Paddy (dhan)

Variety Name: Akshayadhan

General Morphological Characteristics:

PLANT HEIGHT : 105-115 CM; SEMI ERECT AND LONG FLAG LEAF, SEMI ERECT PLANT TYPE WITH SEMI DWARF STATURE, EARLY MATURITY WITH LONG PANICLES AND LONG SLENDER GRAIN TYPE WITH INTERMEDIATE AMYLOSE (23.77%); PLANT TYPE : SEMI ERECT; NO. OF TILLERS/PLANT : 12-14 TILLERS/PLANT; NO. OF PANICLES/SQ. M : 350-400 PANICLES; FLOWERING DURATION : 89 DAYS; PANICLE TYPE : COMPACT; PANICLE EXERTION : WELL EXERTED; AWNING : ABSENT; APICULUS COLOUR : COLOURLESS; 1000 - GRAIN WEIGHT : 24.7G; KERNEL LENGTH : 6.70 MM; KERNEL BREADTH : 2.01 MM; L/B RATIO : 3.32 MM; KERNEL APPEARANCE : LONG SLENDER; HULLING RECOVERY : 79.9%; MILLING RECOVERY : 69.1%; HEAD RICE RECOVERY : 64.95%; ALKALI VALUE : 7.0; AMYLOSE CONTENT :23.77.

Group Name: Cereals

Crop name: Paddy (dhan)

Variety Name: Basmati Kasturi

General Morphological Characteristics:

PLANT HEIGHT : 106.7 CM. SEMI-TALL STATURED, MODERATE TILLERING, STURDY CULM, NON-LODGING, ERECT FLAG LEAF LONG PANICLES WITH LONG SLENDER GRAINS, STRAW HULL WHITE KERNEL SCENTED, ALL PLANTS PARTS GREEN.

Group Name: Cereals

Crop name: Wheat (Gehon)

Variety Name: Aditya

General Morphological Characteristics: AREA OF ADAPTATION:PENINBSULAR ZONE; PRODUCTION CONDITION:RAINFED-TIMELY SOWN; GROWTH HABIT:SEMI SPEADING; ANTHOCYANIN PIGMENTATION OF:COLEOPTILE:PRESENT; LEAF SHEATH:ABSENT; AURICLE:ABSENT; FOLIAGE COLOUR:DARK GREEN; LEAF WIDTH:INTERMEDIATE; AV. DAYS TO HEADING:66; AV.DAYS TO MATURITY:122; WAXINESS:FLAG LEAF:ABSENT; LEAF SHEATH:ABSENT;EAR:ABSENT; PEDUNCLE:ABSENT; AV. PLANT HT.:72CM; EAR COLOUR AT MATURITY:WHTIE; EAR SHAPE:OBLONG; EAR DENSITY:INTERMEDIATE; AWN LENGTH:LONG; GLUME SHOULDER:ROUND; AWN COLOUR AT MATURITY:WHITE; GLUME PUBSCENCE:PRESENT.

Group Name: Cereals

Crop name: Wheat (Gehon)

Variety Name: Aradhana

General Morphological Characteristics:

PLANT HEIGHT : 88 CM.1. GROWTH HABIT : ERRECT 2. ANTHOCYANIN PIGMENTATION OF (I) COLEOPTILE : ABSENT (II) LEAF SHEATH : ABSENT (III) AURICLE (AT FLAG LEAF STAGE) : PRESENT 3. FOLIAGE COLOUR (BOOT STAGE) : DARK GREEN 4. LEAF WIDTH (BOOT STAGE) : INTERMEDIATE 5. AVERAGE DAYS TO HEADING : 166 6. AVERAGE DAYS TO MATURITY : 224 7. WAXINESS ( AT EAR EMERGENCE) (I) FLAG LEAF : PRESENT (II) LEAF SHEATH : PRESENT (III) EAR : ABSENT (IV) PEDUNCLE : ABSENT 8. AVERAGE PLANT HEIGHT (CMS) : 88 9. EAR COLOUR AT MATURITY : WHITE 10. EAR SHAPE: TAPERING 11. EAR DENSITY : DENSE 12. AWNS LENGTH : LONG 13. AWNS COLOUR (AT MATURITY) : WHITE 14.GLUME SHOULDER : ELEVATED 15. GLUME BEAK : SHORT 16. GLUME PUBESCENCE : ABSENT 17. GRAIN (I) COLOUR : AMBER (II) TEXTURE : HARD/SEMI-HARD (III) CHEEKS : ANGULAR (IV) CREASE WIDTH : NARROW (V) BRUSH-END HAIR :PROMINENT (VI) SHAPE : OVOID (VII) AVERAGE 1000 GRAIN WEIGHT (GMS.): 39.5

Group Name: Millets

Crop name: Maize (Makka)

Variety Name: Shalimar Maize

General Morphological Characteristics: Plant height - Long : 180-210, - Tassel anthocyanin colouration of anthers - Absent , - Stem internode anthocyanin - Absent, - Plant height (CM) - 190 (Long : 180 to 210) - Number of rows - 16 (Many > 14 ), - Type of grain - Flint, - Length of tassel (cm) - 31.5, - Colour of dorsal side of grain - Orange yellow, - Leaf hairs on margin of sheath.

Group Name: Millets

Crop name: Maize (Makka)

Variety Name: Bulland

General Morphological Characteristics:

PLANT HEIGHT : 215 CM; FIRST LEAF - ANTHOCYANIN COLOURATION OF SHEATH : WEAK; LEAF - ANGLE BETWEEN BLADE AND STEM (ON LEAF JUST ABOVE UPPER EAR) : MEDIUM ( 25 DEGREE- 75 DEGREE CELCIUS); LEAF - ATTITUDE OF BLADE : CURVED; STEM - DEGREE OF ZIGZAG : ABSENT; STEM - ANTHOCYANIN COLOURATION OF BRACE ROOTS : PRESENT; TASSEL - TIME OF ANTHESIS (ON MIDDLE THIRD OF MAIN AXIS, 50% OF PLANTS) : LATE; TASSEL - ANTHOCYANIN COLOURATION AT BASE OF GLUME (IN MIDDLE THIRD OF MAIN AXIS) : PRESENT; TASSEL - ANTHOCYANIN COLOURATION OF GLUMES EXCLUDING BASE (AS FOR 7) : PRESENT; TASSEL : ANTHOCYANIN COLOURATION ANTHERS (AS FOR 7 ON FRESH ANTHERS) : PRESENT; TASSEL - DENSITY OF SPIKELETS : MEDIUM; TASSEL - ANGLE BETWEEN MAIN AXIS AND LATERAL BRANCHES (IN LOWER THIRD OF TASSEL) : MEDIUM; TASSEL - ALTITUDE OF LATERAL BRANCHES (AS FOR 11) : STRAIGHT; TASSEL - NO. OF PRIMARY & LATERAL BRANCHES : MANY; EAR - TIME OF SILK EMERGENCE (50% PLANTS) : LATE

Group Name: Millets

Crop name: Sorghum (Jowar)

Variety Name: Gujrat Forage Sorghum

General Morphological Characteristics:

GFSH-1 PLANT HEIGHT : 237-236 VM. DAYS FROM SEEDING TO 50% FLOWERING : 67-80 DAYS KHARIF, 63-75 DAYS SUMMER , HCN CONTENT AT FLOWERING : 0.4 TO 15.6 MG/100 G. DM BASIS (LOW HCN CONTENT), STEM THICKNESS IN MM.: 8.8 TO 11.5 MM. THICK SIMILAR TO X- 988, LEAF COLOUR : DARK GREEN, LEAF SIZE : LEAF LENGTH : 73-80CM. LEAF BREADTH : 4.7-7.2 LEAF NUMBER : 10-15, EARHEAD : COMPACT, GLUME VOLOUT : WHITE, SEED COLOUR : WHITE

Group Name: Millets

Crop name: Sorghum (Jowar)

Variety Name: Jawahar Jowar-938

General Morphological Characteristics:

I. PLANT PIGMENT : TAN COLOURED.;II. LEAF : GREEN AND BROAD, MIDRIB DULL GREEN, LEAF MARGIN IS PURPLE COLOURED BEFORE REPRODUCTIVE STAGE; (iii) STEM:THICK AND JUICY TILL MATURITY PURPLE AT BASE DURING INITIAL STAGES OF GROWTH; (iv) EARHEAD:LONG AND SEMI COMPACT WITH MEDIUM LONG PEDUNCLE. FUSIFORM SHAPE; (v) GLUMES:STRAW COLOURED; (vi)AWNS:AWNLESS/TIPPED AWNS; (vii) GRAIN:MEDIUM BOLD, ROUND PEARLY WHITE; (viii) 1000 GRAIN WEIGHT:30 G. ; GRAIN QUALITY : GOOD ; FODDER QUALITY : GOOD ; IT IS SUPERIOR THAN CSH-5 IN FODDER QUALITY. IT HAS MORE PROTEIN AND BETTER IN IVDMD THAN MANY OTHER VARIETIES. ; PLANT POPULATION : 1,80,000 PER HA

Group Name: Millets

Crop name: Pearl Millet (Bajara)

Variety Name: Eknath-301

General Morphological Characteristics:

PLANT HEIGHT - 175 - 180 CMS. LEAF (A) SHEATH LENGTH (CM) (I) FOURTH NODE LEAF FROM TOP 12-14 (II) FLAG LEAF 23-25 INFLORESCENCE: (A) DAYS TO FLAG LEAF 38-42 (B) DAYS TO 50% FLOWERING 48-52 (C) DAYS TO MATURITY 80-85 SPIKELET: (A) GLUME PIGMENTATION (AT DOUGH STAGE) GREEN (B) ANTHER PIGMENTATION (BEFORE DEHISCENSE) YELLOW (C) ANOTHER PIGMENTATION (AFTER DEHISCENSE) BROWN (D) STIGMA PIGMENTATION (AT FPWEROMG) WHITE (E) BRISTLE LENGTH (CM) 1.2 (F) BRISTLE PIGMENTATION (AT DOUGH STAGE) LIGHT YELLOW (G) BRISTLE ORNAMENTATION (SCABROUS/CILIATE/PLUMOUSE) PLUMOSE.

Group Name: Millets

Crop name: Pearl Millet (Bajara)

Variety Name: Gujrat Hybrid BAjra-235

General Morphological Characteristics:

GHB- 235 IS COMING FROM CROSS-COMBINATION OF MS 81 A X J- 2296. THIS HYBRID HAS BEEN WIDELY TESTED IN GUJARAT STATE IN LARGE SCALE TRIALS- I DURING 1989 TO 1991 ON NINE DIFFERENT LOCATIONS IN 26 TRIALS. IT HAS PERFORMED VERY WELL IN NORTH GUJARAT, NORTH WEST GUJARAT AND SOUTH SAURASHTRA AGRO-CLIMATIC ZONES OF GUJARAT STATE WHICH HAS THE MAJOR BAJRA GROWING AREAS OF THE STATE IT HAS OUT-YIELDED BY 6.47 TO 53.80% IN GRAIN YIELD IN NORTH GUJARAT AND NORTH WEST GUJARAT, WHILE 15.36 TO 54.49% IN GRAIN YIELD IN SOUTH SAURASHTRA ZONE OVER ALL THE FOUR CHECKS VIZ. GHB- 32, GHB-30,GHB- 181 AND MH-179 WITH WHICH IT WAS TESTED. IT IS HAVING BETTER RESISTANCE REACTION TO DOWNY MILDEW UNDER FIELD AS WELL AS UNDER ARTIFICIALLY CTRATED APIPHYTOTIC CONDITIONS AND BETTER REACTION TO SMUT AS COMPARED TO CHECKS. IN PESTS, IT HAS BETTER REACTION TO STEM BORER INCIDENCE. GRAIN SIZE IS BOLD AND IT IS MATURING IN 80 DAYS.