

A) VALUATION OF PLANT AND MACHINERY

SR. NO.	BRIEF DESCRIPTION	FAIR MARKET VALUE (₹)
1.	<u>MILLING PLANT :</u>	
	<p>1) CANE WEIGH BRIDGES :</p> <p>i) 2 – NOS. OF CANE WEIGH BRIDGES</p> <p>ii) TYPE – ELECTRONIC TYPE</p> <p>iii) MAKE – SHIVAM WEIGHING SCALE, HIMMATANAGAR, GUJRAT.</p> <p>iv) PLATFORM SIZE – 40 MT = 3.175 X 7.450 MTS 50MT = 3.4 X 16MTR FOR TRUCK & TRACTOR</p> <p>A) CANE UNLOADER'S : TWO NOS.</p> <p>1). I) MAKE – 'TRIMURTI' MAKE (KOLHAPUR) II) TYPE TWO MOTION ELECTRICALLY OPERATED.</p> <p>iii) CAPACITY – 5 MT/LIFT.</p> <p>iv) LIFT PER HR. = 20 LIFTS/HR.</p> <p>v) H.P OF CROSS TRAVEL = 3.5 HP AND 940 RPM</p> <p>vi) H.P OF HOIST MOTION = 20 HP AND 935 RPM 2).</p> <p>I) MAKE – S S ENGINEERS</p> <p>ii) TYPE TWO MOTION ELECTRICALLY OPERATED.</p> <p>iii) CAPACITY – 7.5 MT/LIFT.</p> <p>iv) LIFT PER HR. = 20 LIFTS/HR.</p> <p>v) H.P OF CROSS TRAVEL = 7.5 HP AND RPM</p> <p>vi) H.P OF HOIST MOTION = 25 HP AND 960 RPM</p> <p>B) FEEDER TABLE :</p> <p>i) ONE NOS. = PUSHER CHAIN TYPE FOR BULLOCK CART</p> <p>ii) SIZE = L-7 MTRS X W-6 MTRS</p> <p>iii) DRIVE = 15 HP/1440RPM. WITH DYNOSPEED DRIVE</p> <p>iv) SPEED = 1 TO 3 MTRS/MIN.</p> <p>v) CHAIN = 8 STANDS & 150 MM PITCH.</p> <p>vi) ANGLE OF INCLINATION = HORIZONTAL</p>	
	<p>2) CANE CARRIER : TWO NOS HAVING AUTO CANE FEEDING SYSTEM (ACFC) MAKE – INSTRUCON SYSTEM , SATARA</p> <p>A) FIRST CANE CARRIER :</p> <p>i) LENGTH = 40000MM & WIDTH = 1220 MM</p> <p>ii) HORIZONTAL LENGTH- 15000MM</p> <p>iii) INCLINED LENGTH – 25000MM</p> <p>iv) NO. OF STRAND & PITCH = 2 NOS & 150MM.</p> <p>v) DRIVE = 40 HP 1440RPM VARIABLE SPEED</p> <p>vi) DYNO SPEED RPM – 120 TO 1200 RPM</p> <p>B) SECOND CANE CARRIER :</p> <p>i) LENGTH = 12000 MM & WIDTH = 1220 MM</p> <p>ii) INCLINATION 45 DEGREE.</p> <p>iii) NO. OF STRAND & PITCH = 2 NOS & 229 MM</p> <p>iv) DRIVE = 30 HP 1440 RPM VFD AC</p>	

2) CANE PREPARATION :**A) CANE CHOPPER :**

- I) ONE NUMBER.
 II) MAKE = AJRI HEAVY ENGG. KOLHAPUR
 III) DRIVE HP = 150 RPM-600
 IV) SWING DIA.- 1600MM

B) CANE LEVELER :

- i) ONE NUMBER SWING TYPE KNIVES
 ii) MAKE – AJRI HEAVY ENGG. KOLHAPUR.
 iii) NO. OF KNIVES – 36.
 iv) DIA OVER TIP AND KNIVES = 1600 MM.
 v) CLEARANCE BETWEEN TIP OF KNIFE AND CANE CARRIER IS 250MM
 vi) DRIVE = ELECTRIC MOTOR 250HP/600 RPM.
 vii) PITCH = 100MM.
 viii) YEAR OF INSTALLATION – 2015

C) FIBRIZER SWINGING HAMMER :

- i) ONE SET. SWING HAMMER
 ii) MAKE – AJRI HEAVY ENGG. KOLHAPUR
 iii) NO. OF HAMMERS = 84.
 iv) TYPE – SWING HAMMER TYPE.
 v) WT. OF EACH HAMMER = 14.200KG.
 vi) SHAFT DIA. = 240 MM.
 vii) SWING DIA. = 2000 MM.
 viii) SETTING 160-100-20 MM
 ix) DRIVE – 500HP/737RPM M,2 NOS.
 x) COUPLED – DIRECTLY COUPLED GEAR COUPLING 108
 xi) YEAR OF INSTALLATION – 2015.

MILLS :

A) MILLS : FOUR NOS. OF MILLS HAVING THREE ROLLERS AND MILL THE DIA & LENGTH OF THE ROLLER 1220 ,TRPF EACH MILL & DONNELLY CHUTE .ROLLER DIA 700MM X1220MM LENGTH

B) RAKE TYPE INTER CARRIER :

- i) ALL 4 MILLS HAVING RAKE TYPE I/C WITH TRPF ROLLERS SIZE— 700MM X 1220MM INCLINATION 64 DEGREE
 ii) INDIVIDUAL HYDRAULIC SYSTEM IS PROVIDE MAKE KAMAKHI ENGINEERING, BELGAON. TYPE – 8 CYLINDER NITROGEN BASED.

MAX. PRESSURE – 5000 PSI

DETAIL OF MILLING TANDUM

DESCRIPTION	I	II	III	IV
MILL SETTING IN MM PCD TO PCD				
FEED (MM)	44	34	30	27
DISCHARGE (MM)	18	14	12	11
TRASH PLATE (MM)	70	55	49.5	42
TRPF	100	100	85	85
GROOVING DETAILS				
I) PITCH (MM)	50	50	35	35
II) GROOVING ANGLE	-	-	-	-
FEED	35 ^o	35 ^o	35 ^o	35 ^o
TOP	50 ^o	50 ^o	50 ^o	50 ^o
DISCHARGE	45 ^o	45 ^o	45 ^o	45 ^o
TRPF PITCH	140	140	140	140
III) DEPTH FEED				

TOP	57			
DISCHARGE	43	57	40	40
TRPF	48	43	30	34
GROOVING DETAILS	50	48	34	34
DIAMETER OF ROLLERS (MM)				
FEED	685	710	683	688
TOP	710	710	703	705
DISCHARGE	710	710	705	710
ROLLER RPM	4-6	4-6	4-6	4-6

i) TOTAL HYDRAULIC LOAD ON TOP ROLLER IN KG 200 KG/CM²

ii) LENGTH & DIA OF ROLLER JOURNAL(MM) 300 X 400 MM

C) DRIVES FOR CRUSHER & MILLS :

A) GEAR ARRANGEMENT :

- 1) PLANETARY GEAR REDUCER WITH ROPE COUPLING.
- 2) MAKE –TOP GEAR.
- 3) GEAR BOX OIL COOLING ARRANGEMENT
- 4) TYPE-MD 1250 RATIO-122.18:1FOR MILL NO-1
- 5) TYPE MD 950 RATIO 122:1 FOR MILL NO. 2 TO 4

B) IF ELECTRIC MOTORS ARE USED STATE:

- 1) FOUR NOS. OF ELECTRIC MOTOR PROVIDED FOR MILL DRIVE WITH AC VFD DRIVE
- 2) MAKE – SIMO
- 3) TYPE – FOOT MOUNTED TEFC
- 4) HP – 270. RPM – 735
- 5) YEAR OF INSTALLATION – 2010

D) INTERMEDIATE CARRIER RAKE TYPE :

a) RAKE CARRIER : THREE NOS.

- 1) LENGTH OF EACH - 5204 MM
- 2) WIDTH OF EACH - 1220 MM
- 3) INCLINED ANGLE – 60°
- 4) FEEDING HEIGHT – 1230 MM
- 5) DRIVE HP – 15
- 6) PLANETARY GEAR BOX – KAVISTU MAKE
- 7) NO OF RAKES FOR EACH RAKE CARRIER – 33 NOS.
- 8) MAKE – GBIP, PUNE
- 9) YEAR OF INSTALLATION – 2010.

MILL HOUSE CRANE :

CAPACITY : 10 TON
WITH STANDARD FITTING AND ACCESSORIES

CENTRALIZED GREASE LUBRICATION SYSTEM :

WITH STANDARD FITTING AND ACCESSORIES

BAGASSE ELEVATOR, BAGASSE CARRIER & RETURN BAGASSE CARRIER :

A) SLAT TYPE, LENGTH :

- 1) BAGASSE ELEVATOR – ONE NOS.
- 2) TYPE – ONE STEEL CHAIN SLAT TYPE. NO OF SLAT 52
- 3) PITCH – 150 MM.
- 4) WIDTH – 1240MM.
- 5) LENGTH – 15600MM
- 6) DRIVE HP – 25 HP/RPM.

	<p>7) GEAR BOX – PLANETARY GEAR BOX, MAKE – KAVISTU SR. NO. – 11104424.</p> <p>8) SPEED – 25 METERS/MIN.</p> <p>9) MAKE – GBIP, PUNE.</p> <p>10) YEAR OF INSTALLATION – 2010.</p> <p>B) RETURN BAGASSE CARRIER : ONE NUMBER.150MM PITCH</p> <p>1) LENGTH – 76 MTR C TO C-32 M HT-10 MTR</p> <p>2) WIDTH – 1220 MM DEPTH</p> <p>3) GEAR BOX MAKE – KAVISTU SATARA</p> <p>4) TYPE – PLANETARY</p> <p>5) DRIVE -25 HP/1460 RPM</p> <p>IMBIBITION :</p> <p>1) HOT WATER IMBIBITION IS PROVIDED.</p> <p>2) HOT WATER FLOW METER CAPACITY – 40M³/HR MAKE – ADEPT. PUNE. YEAR – 2010 PIPE SIZE – 80 MM. COMPOUND IMBIBITION :</p> <p>JUICE SCREENING : 1) DSM SCREEN – ONE NO. IS PROVIDED</p> <p>3) ROTARY JUICE SCREEN HAVING DIA 1780X3340 MM WITH AUTO SCREEN WASHING ARRANGEMENT PER SPACING 500 MICRON</p> <p>BAGASSE BAILNG MACHINE : 01 NO. CAPACITY : 5 TPH ,30HP /1440 RPM BAGACILLO BLOWER :</p> <p>1) ONE NO. MAKE – GBIP PUNE.</p> <p>BAGASSE BAIL BRAKER : ONE NOS. YASH ENGINEERS, MIDC, AHMEDNAGAR</p>																																																		
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2.	<u>BOILING HOUSE :-</u>																																																		
	<p>JUICE HEATERS : 06 NOS.</p> <table border="1" data-bbox="323 1397 1241 2042"> <thead> <tr> <th>MAKE</th> <th>TYPE</th> <th>NO. OF TUBES</th> <th>NO. OF PASSES</th> <th>TUBES PASS</th> <th>TUBES / SIZE ODX ID X LMM</th> <th>HEATING SURFAC EM2</th> </tr> </thead> <tbody> <tr> <td>GBIP , PUNE</td> <td>VERTICAL HIGH</td> <td>216</td> <td>24</td> <td>9</td> <td>42X45X4000</td> <td>118 M2</td> </tr> <tr> <td>GBIP , PUNE</td> <td>VERTICAL HIGH</td> <td>216</td> <td>24</td> <td>9</td> <td>42X45X4000</td> <td>118 M2</td> </tr> <tr> <td>GBIP , PUNE</td> <td>VERTICAL HIGH</td> <td>216</td> <td>24</td> <td>9</td> <td>42X45X4000</td> <td>118 M2</td> </tr> <tr> <td>GBIP , PUNE</td> <td>VERTICAL HIGH</td> <td>216</td> <td>24</td> <td>9</td> <td>42X45X4000</td> <td>118 M2</td> </tr> <tr> <td>GBIP , PUNE</td> <td>VERTICAL HIGH</td> <td>216</td> <td>24</td> <td>9</td> <td>42X45X4000</td> <td>118 M2</td> </tr> <tr> <td>GBIP , PUNE</td> <td>VERTICAL HIGH</td> <td>216</td> <td>24</td> <td>9</td> <td>42X45X4000</td> <td>118 M2</td> </tr> </tbody> </table>	MAKE	TYPE	NO. OF TUBES	NO. OF PASSES	TUBES PASS	TUBES / SIZE ODX ID X LMM	HEATING SURFAC EM2	GBIP , PUNE	VERTICAL HIGH	216	24	9	42X45X4000	118 M2	GBIP , PUNE	VERTICAL HIGH	216	24	9	42X45X4000	118 M2	GBIP , PUNE	VERTICAL HIGH	216	24	9	42X45X4000	118 M2	GBIP , PUNE	VERTICAL HIGH	216	24	9	42X45X4000	118 M2	GBIP , PUNE	VERTICAL HIGH	216	24	9	42X45X4000	118 M2	GBIP , PUNE	VERTICAL HIGH	216	24	9	42X45X4000	118 M2	
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<p>JUICE SULPHITATION TANK :</p> <ol style="list-style-type: none"> ONE NO. OF CONTINUOUS JUICE SULPHITATION TANK WORKING HEIGHT – 3.20 M MAKE – GBIP PUNE DIAMETER- 2700 MM RETENTION TIME - 8 MIN. STIRRER MOTOR. - PROVIDED. GEAR BOX. - PLANETORY TOP GEAR 																																		
<p>CLARIFIER :</p> <ol style="list-style-type: none"> ONE NOS. OF CLARIFIER MAKE – GBIP, PUNE TYPE – SINGLE TRAY. DIAMETER – 6000 MM HEIGHT – 6000 MM NO. OF COMPARTMENT – SINGLE. TOTAL JUICE HOLDING CAPACITY – 1900HL RETENTION TIME – 1.5 HR STIRRER MOTOR – HP/RPM -0.50/1380 & SPEED – 3 RPHWITH VFD DRIVE GEAR BOX – KAVISTU RPM – 5 																																		
<p>SULPHER GAS PLANT :</p> <p>A) SULPHER FURNACE STATE TYPE & NO.</p> <ol style="list-style-type: none"> THREE NOS. OF CONTINUOUS SULPHER BURNERS. MAKE – VISHWA, NASIK/S.S. ENGG. PUNE CAPACITY - 70KG/HR EACH <p>B) AIR COMPRESSORS, STATE NUMBER : THREE NOS. OF AIR BLOWERSARE PROVIDED</p> <table border="1"> <thead> <tr> <th>STATION</th> <th>MAKE</th> <th>TYPE</th> <th>PRESSU RE</th> <th>MOTOR HP/RPM</th> <th>COMPRES SOR</th> <th>CFM</th> </tr> </thead> <tbody> <tr> <td>JUICE SULPHIT ATION</td> <td>AIRVAC</td> <td>ROTARY TWI</td> <td>1.00 KG/CM²</td> <td>50HP/ 1440RP M</td> <td>--</td> <td>500M³ /HR.</td> </tr> <tr> <td>SYRUP SULPHIT ATION</td> <td>AIRVAC</td> <td>ROTARY TWI</td> <td>1.00 KG/CM²</td> <td>50HP/ 1440RP M</td> <td>--</td> <td>500M³ /HR.</td> </tr> <tr> <td>COMMO N</td> <td>KPT</td> <td>ROTARY TWI</td> <td>1.00 KG/CM²</td> <td>50HP/ 1440RP M</td> <td>--</td> <td>600M³ /HR.</td> </tr> </tbody> </table>							STATION	MAKE	TYPE	PRESSU RE	MOTOR HP/RPM	COMPRES SOR	CFM	JUICE SULPHIT ATION	AIRVAC	ROTARY TWI	1.00 KG/CM ²	50HP/ 1440RP M	--	500M ³ /HR.	SYRUP SULPHIT ATION	AIRVAC	ROTARY TWI	1.00 KG/CM ²	50HP/ 1440RP M	--	500M ³ /HR.	COMMO N	KPT	ROTARY TWI	1.00 KG/CM ²	50HP/ 1440RP M	--	600M ³ /HR.
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<p>FILTERS :</p> <p>A) ROTARY VACCUM FILTER :</p> <ol style="list-style-type: none"> TWO NUMBERS OF ROTARY VACCUM FILTER 																																		

	<p>2) MAKE - HITECH ENGG. MEERUT./SS ENGG.PUNE3) SIZE – 8’ (DIA) X 16’ L (2440 MM X 4880 MM)</p> <p>4) FILTERING AREA = 36 M2</p> <p>5) DRUM SPEED – VARIED BY MECHANICAL SPEED VARIATOR &VFD B) VACUUM PUMP : 02 NOS.</p> <p>1) MAKE – GARUDA MODEL – GXL-760 PUMP RPM – 1100 CAPACITY – 720 CHMVACUUM – 540 MM/HG.</p> <p>2)DRIVE MOTOR 30 /1475 HP/RPM</p>	
	<p>MILK OF LIME PLANT :</p> <p>a) LIME SLAKER :</p> <p>1) 01 NO. MOL SLAKER</p> <p>2) TYPE – ROTORY TYPE</p> <p>3) SIZE –L- 2500MM DIA- 760MM</p> <p>4) MAKE – SIMO HP/RPM – 5.5/1450</p> <p>5) GEAR BOX – MAKE/TYPE/-SHANTI/ FU4</p> <p>b) MILK OF LIME STORAGE TANK :</p> <p>1) STORAGE TANK – 02 NOS.</p> <p>2) VOLUME - 6.23 M2</p> <p>3) DIA – 1900 MM</p> <p>4) HEIGHT – 2200 MM</p> <p>5) STIRRER DRIVE MOTOR – MAKE/ HP/ RPM/ CROMPTON/7.5/1450</p> <p>6) G.B. –SHANTI/FV-6</p> <p>C)ZERO GRIT ,ZERO SILICA SYSTEM</p>	
	<p>DOSING PUMPS :</p> <p>A) BOILER CHEMICAL DOSING :</p> <p>i) H.P. DOSING :</p> <p>1) ONE NUMBER.</p> <p>2) SR. NO. 10105698</p> <p>3) MODEL NO. – PL-2017</p> <p>4) CAPACITY – 0.15 LPH</p> <p>5) PRESSURE – 65 KG/CM².</p> <p>6) WORK ORDER NO. – 5782/2.</p> <p>7) TYPE – PLUNGER TYPE.</p> <p>8) MAKE – POSITIVE METERING PUMPS (I) PVT LTD.</p> <p>ii) L.P. DOSING</p> <p>1)ONE NUMBER.</p> <p>2) SR. NO. – 10105697.</p> <p>3) MODEL – PL – 1011</p> <p>4) CAPACITY – 15 LPH</p> <p>5) PRESSURE – 5 KG/CM²</p> <p>6) WORK ORDER NO. – 5782/1.</p> <p>7) TYPE – PLUNGER TYPE.</p> <p>8)MAKE – POSITIVE METERING PUMPS (I) PVT. LTD.</p>	
	<p>EVAPORATION BOILING PLANT : MAKE – GBIP, PUNE</p> <p>a) EVAPORATORS :</p> <p>1) EVAPORATOR BODY NO. 1 – VAPOUR BLEED TO JUICE HEATER (S/J SECOND HEATING) PAN NO. 2 TO 4</p>	

3) EVAPORATOR BODY NO.2
EVAPORATOR BODY NO. 2 – VAPOUR BLEED TO PAN NO. 1

2) JUICE HEATER (S/J 1ST HEATING) (R/J HEATING)

3) EVAPOUR BODY NO.3
EVAPORATOR BODY NO. 3 – VAPOUR BLEED TO
1) RAW JUICE & 2) EVAPOUR BODY NO.4

B) GENERAL ARRANGEMENT OF EVAPORATOR :

DESCRIPTION	EVAPORATOR SEMI KESTNER NO.1	EVAPORATOR NO.2	EVAPORATOR NO.2	EVAPORATOR NO.4	EVAPORATOR NO.5	EVAPORATOR NO.4 8
HEATING SURFACE (M ²)	1700	820	700	290	150	350
DIA. OF SHELL (MM)	4018	2800	2800	2210	2000	2605
VAPOUR OUTLET (MM)	900	650	650	500	670	750
HEIGHT OF CALLENDRIA (MM)	4490	3330	2840	2030	1430	2202
EXHAUST/VAPOUR INLET (MM)	800	650	650	650	500	600
NO. OF TUPES (S.S TUBES SIZE OD X ID X LENGTH)	2810 42X45X4 500	1807 42X45X3 340	1801 42X45X2 900	1043 42X45X2 120	775 42X45X1 530	1311 42X4 5X2 000
MAKE	SS ENGG	GBIP, PUNE	GBIP, PUNE	GBIP, PUNE	GBIP, PUNE	CRYSTAL, PUNE
YEAR	2013	2011	2011	2011	2011	2015

1) TEMPERATURE GAUGES ARE PROVIDE TO EACH BODY AND CALENDRIA.

2) VACUUM GAUGES ARE PROVIDED FOR Q3 & Q4

3) PRESSURE GAUGES ARE PROVIDED FOR Q1 & Q2

4) TEMP GAUGES ARE PROVIDED FOR JH NO 1 TO 5

SYRUP TREATMENT PLANT :

1)TOTAL STORAGE TANKS ARE 13 NOS. EACH OF 8.5 MT.

DISTRIBUTION- 1)SYRUP-03

2)MELT- 01

3)AL- 01

4)AH- 04

5)BH- 02

6) CL- 02

DIMENSION- L X W X H = 3.4 X1.7 X1.5 =8.67M³

B)MOLASSES CONDITIONERS -03 NOS

VACUUM PAN :

1)GBIP – PUNE MAKE E.G. COIL OR CALLENDRIA, LOW HEAD

2)NO. OF PANS- 04 NOS. WITH MECHANICAL CIRCULATION AND FOR EACH PAN

3)LOW HEAD CALLENDRIA WITHOUT STATE NORMAL CAPACITY & TOTAL HEATING SURFACE. MECHANICAL CIRCULATOR EACH HAVING HEATING SURFACE 200 M²

PARTICULAR	PAN NO.1	PAN NO.2	PAN NO.3	PAN NO.4	PAN NO.5
MAKE	SS ENGG, PUNE	GBIP, PUNE	GBIP, PUNE	GBIP, PUNE	GBIP, PUNE
CAPACITY	60	40	40	40	40
TYPE	L.H.	L.H.	L.H.	L.H.	L.H.
TUBE SIZE	102X100X7 X50	102X100X7 X50	102X100X7 X50	102X100X7 X50	102X100 X7X50
NO. OF TUBES	1300	684	684	684	684
H.S.	300 SQ. MT.	200 SQ. MT.	200 SQ. MT.	200 SQ. MT.	200 SQ. MT.
TYPE OF CONDENSER	SINGLE ENTRY	SINGLE ENTRY	SINGLE ENTRY	SINGLE ENTRY	SINGLE ENTRY
VAPOUR PIPE I/L DIA. IN MM	350	350	350	350	350
VAPOUR PIPE O/L DIA. IN MM	1000	900	900	900	900
PURPOSE	A	A	A	B	C

CONDENSATE PLANT :

1) MAKE – GBIP, PUNE/S.S.ENGG./AJAY POLYMER

2) NOS. – 7 NOS. 2 FOR Q, & OTHER – 5 FOR PAN NO 1 TO 5

PARTICULARS	Q1	P1	P2	P3	P4	P5	Q2
VAPOUR PIPE DIA.	600	900	900	900	900	900	600
NO. OF NOZZLES	30	36	36	36	36	36	30
TYPE	M.S.S.E TYPE	M.S.S.E TYPE	M.S.S.E TYPE	M.S.S.E TYPE	M.S.S.E TYPE	M.S.S.E TYPE	M.S.S.E TYPE

b) CONDENSER WATER PUMP :

1) FOR QUAD. & PAN NO. 1 TO 4 – TOTAL THREE NOS. OF INJECTION PUMP PROVIDED WITH COMMON HEADER HAVING SIZE – 900 MAKE – GITA/MATHER & PLANT

TYPE – 250 MF

CAPACITY – 1000 M³/HR EACH HEAD – 22 METERS MOTOR MAKE – HP/RPM = 120 HP/1440 RPM

c) PRIMING PUMP : MAKE - KIRLOSKAR DV40

d) WATER COOLING SYSTEM : 3 NOS.

i) SPRAY PUMP STATE TYPE :

MAKE – GEETA MAKE – 2 NOS

TYPE – 250 MF , SUC & DEL – 250X250 CAPACITY – 900 M³/HRS

GEETA MAKE – CAPACITY - 700 M³/HRS- 01 NO.

TYPE – 10 MFO3 , SUC & DEL – 250X250

ii) **SPRAY POND :**

1) ONE SPRAY POND PROVIDED.

2) DIMENSION- L X W X D

72.5 X 52.00 X 1.500 = 565 M³

3) TOTAL NO. OF NOZZLE- 280

4) NOZZLE SIZE ID- 25 MM THREAD DIA- 50MM

iii) PRIMING PUMP NO. 2 : MAKE – GEETA

iv) COOLING CURRING & DRYING PLANT :

FANLESS COOLING TOWER 2 NOS. 25 MT/HR FOR CONDENSATE COOLING

CRYSTALLIZERS :

TYPE	COOLING SYSTEM	CAPACITY	USED FOR	PLANETARY GEAR BOX
U SHAPED OPEN HORIZONTAL TYPE	AIR COOLED	65 MT	A	CYCLO SR. NO. 03102774 MOTOR MAKE CG/3HP/1430
U SHAPED OPEN	AIR COOLED	45 MT	A	CYCLO SR. NO. 03102775 MOTOR MAKE
U SHAPED	AIR	45 MT	B	CYCLO SR. NO.

	OPEN	COOLED			03102776 MOTOR MAKE
	U SHAPED OPEN	WATER COOLED	50 MT	B	CYCLO SR. NO. 03102777 MOTOR MAKE
	U SHAPED OPEN	WATER COOLED	50 MT	C	CYCLO SR. NO. 03102773 MOTOR MAKE
	U SHAPED OPEN	AIR COOLED	45 MT	C	MOTOR- 5HP/1440RPM MAKE-TOP GRAR FINAL RPH-60
	U SHAPED OPEN	AIR COOLED	---	SEED	MOTOR- CG/1.5HP/1440 CYCLO P/GB. SR. NO. FINAL RPH-60
	ROUND CYLINDRICAL TYPE	VACUUM	65 MT	A	MOTOR- 3HP/1440RPM MAKE-TOP GRAR FINAL RPH-1
	ROUND CYLINDRICAL TYPE	VACUUM	--	VACUUM	MOTOR- CG/2HP/1440 CYCLO. RATIO- 1364.0, SR. NO.- 03102833
	VERTICAL	WATER	150 MT	C	MOTOR- CG/5HP/1430 CYCLO. MODEL- CRY 470, RATIO- 4277.1, SR. NO.- 03102835
<p>A) CONTINUOUS CRYSTALLIZER :</p> <p>1)ONE NO. OF CONTINUOUS VERTICAL CRYSTALISER</p> <p>2)MAKE- GBIP, PUNE</p> <p>3)HOLDING CAPACITY- 150 MT</p> <p>4)HEIGHT OF THE SHELL- 10000MM</p> <p>5)OVERFLOW HEIGHT- 9000MM</p> <p>6)DIAMETER- 4000MM</p> <p>7)DRIVE MOTOR HP/RPM- 5HP/1440RPM</p> <p>GEAR BOX- MAKE – CYCLO.</p> <p>TYPE- CRY-470 RATIO- 4200 : 1,</p> <p>STIRRER REVOLUTION- 20/HR</p> <p>B) SEED CRYSTALLISER : S MOTIONED IN (24) CLASS</p>					

DRIVE & STIRRER DETAILS :					
DRIVE MOTOR MAKE /HP/RPM			GEAR BOX DETAILS REMAKE MAKE/MODEL/RATIO/SR.NO.		
CG/3HP/1430			CYCLO/-/03102774		
CG/3HP/1430			CYCLO/-/03102775		
CG/3HP/1430			CYCLO/-/03102776		
CG/3HP/1430			CYCLO/-/03102777		
CG/3HP/1430			CYCLO/-/03102773		
CG/3HP/1430			CYCLO/-/03102834		
CG/3HP/1430			CYCLO/70/1364 1/03102835		
CG/3HP/1430			CYCLO/CRY -470/4277 1/03102837		
SUPER HEATER WASH WATER ELECTRICAL HEATING SYSTEM PURCHASE YEAR : 2015					
CENTRIFUGAL MACHINE :					
MAKE	CAPACITY	TYPE	MOTOR MAKE HP/RPM	BASKET SIZE USED FOR	QTY
NHEC, PUNE	1000 KG PER CHARGE, 20 CYCLES PER HR.	COMPLETELY AUTOMATIC RECYCLING TYPE C/F FLAT BOTTOM DC DRIVE	SIMO MAKE/180 HP/135KW/ 600RPM TO 1400 VARIABLE SPEED.	A-M/C CURING	2 NO
NHEC, PUNE	12 T/HR	NK 1100 30 ^o CONTINUOUS MACHINE	BHARAT BIJALEE/75 HP/55KW/1 480RPM	BASKET DIA 1100MM 1800RPM B- MASS BASKET PULLY DIA 235MM MOTOR PULY DIA. 290MM	1 NO
NHEC, PUNE	12 T/HR	NK 1100 30 ^o CONTINUOUS MACHINE	BHARAT BIJALEE/75 HP/55KW/1 475RPM	BASKET DIA 1100MM 1650RPM C.A.W. MOTOR PULY DIA. 260MM	1 NO
NHEC, PUNE	6 T/HR	NK 1100 30 ^o CONTINUOUS	BHARAT BIJALEE/75	BASKET DIA 1100MM	2 NO

		MACHINE	HP/55KW/1 475RPM	2000RPM C- MASS MOTOR PULY DIA. 125MM																					
NHEC, PUNE	6 T/HR	NK 1100 30 ⁰ CONTINUOUS MACHINE	BHARAT BIJALEE/75 HP/55KW/1 475RPM	BASKET DIA 1100MM 1800RPM C- MASS MOTOR PULY DIA. 235MM	1 NO																				
<p>b) AIR COMPRESSOR : TWO NUMBERS 1) MAKE – ANEST EWATA MAKE AIR COOLED AND RECIPROCATING TYPE SIZE/MODEL – LT 150SR. NO. KMO.172 PRESSURE AND DISCHARGE MOTOR HP/RPM – 15 HP/1460 AIR RECEIVER TANK – ONE NOS. WHICH IS AIR COMPRESSOR ISMOUNTED ON THIS TANK MAKE – ANEST EWATA MAKE 2)CICAGO PNEWMATIC MAKE A)MODEL –CPA7-7(TM)-300LTR</p>																									
<p>SUGAR MELTER : 1) ONE NUMBER, VERTICAL TYPE WITH STIRRER 2) DIAMETER – 1900 MM 3) HEIGHT – 2500 MM 4) CAPACITY – 7.8 M³ 5) GEAR BOX – TYPE – FV6 RATIO – 70 : 1. 6) MOTOR HP/RPM –7.5 /1440 RPM-20 7) PUMP- ONE NUMBER 8) MAKE – GETTA TYPE – 50-BC-320 SIZE- 65X50 TOTAL HEAD – 30 METERS RATE OF FLOW – 15 M3/HR MOTER MAKE –MAKE/HP/RPM/ SIM0/20HP/470</p>																									
<p>SUGAR GRASS HOPPER : MAKE- MEB INDUSTRIES, SANGLI INST. YEAR -2010</p> <table border="1"> <thead> <tr> <th>TYPE</th> <th>LENGTH MM</th> <th>WIDTH MM</th> <th>DRIVE MAKE HP/RPM</th> <th>BELT NO</th> </tr> </thead> <tbody> <tr> <td>SINGLE TRAY</td> <td>10000</td> <td>1500</td> <td>HINDUSTAN/10 /960</td> <td>C-120/4NO</td> </tr> <tr> <td>MULTI TRAY</td> <td>10000</td> <td>1500</td> <td>HINDUSTAN/10 /960</td> <td>C-120/4NO</td> </tr> <tr> <td>MULTI TRAY</td> <td>10000</td> <td>1500</td> <td>HINDUSTAN/10 /960</td> <td>C-120/4NO</td> </tr> </tbody> </table>						TYPE	LENGTH MM	WIDTH MM	DRIVE MAKE HP/RPM	BELT NO	SINGLE TRAY	10000	1500	HINDUSTAN/10 /960	C-120/4NO	MULTI TRAY	10000	1500	HINDUSTAN/10 /960	C-120/4NO	MULTI TRAY	10000	1500	HINDUSTAN/10 /960	C-120/4NO
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MULTI TRAY	10000	1500	HINDUSTAN/10 /960	C-120/4NO																					
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<p>SUGAR ELEVATOR :</p> <ol style="list-style-type: none"> 1) ONE NOS. 2) TYPE – BELT TYPE PVC BUCKET 3) NO. OF BUCKET – 96 4) CAPACITY- 30 T/HRS 5) DRIVE MOTOR-5HP/1440/25:01 	
<p>SUGAR GRADER :</p> <ol style="list-style-type: none"> 1) ONE NOS. 2) MAKE –BEVCON MAKE 3) DECK – 03 4) CAPACITY- 15 T/HRS 5)DRIVE MOTOR-MAKE/HP/RPM- FRIEDRICH/4HP/1450-2 	
<p>HOT AIR BLOWER :</p> <ol style="list-style-type: none"> 1) 1 MAKE – MEB INDUSTRIES SANGLI 2) NO. OF BLADES – SIX PLASTIC MATERIAL 3) DRIVE MOTOR – MAKE HINDUSTAN 4) HP/RPM- 1HP/2845RPM 	
<p>COLD AIR BLOWER :</p> <ol style="list-style-type: none"> 1) MAKE – MEB INDUSTRIS SANGLI. 2) NO. OF BLADES – SIX PLASTIC MATERIAL 3) DRIVE MOTOR – CROMPTON 4) HP/RPM- 1HP/2845RPM 	
<p>MAGMA MIXER : QUANTITY : 4 NOS. PURCHASE YEAR : 2015</p>	
<p>SUGAR WEGHING MACHINES :</p> <ol style="list-style-type: none"> 1)BEAM TYPE- 1NOS. CAPACITY- 300KG C- 2)PLATFORM TYPE.2 NOS. MAKE SECO. ELECTRONICS, PUNE CAPACITY- 150KG 3)PLATFORM TYPE- 1 NOS. <p>MAKE- ARROW DIGITAL SCALE CAPACITY- 200KG.</p>	
<p>SUGAR CYLO :</p> <p>3 BIN HAVING CAPACITY 170 MT WITH AUTOMATIC STEACHING M/C AND CONVEYER TO BELT CONVEYER</p>	
<p>BAG STITCHING MACHINE : 3 NOS.</p> <p>MAKE – NOVEL MODEL – D/DA</p>	
<p>SUGAR BAG STACKER :</p> <p>QTY.- TWO NUMBER</p> <ol style="list-style-type: none"> 1)MAKE- GROUP ENGG. SANGLI LENGTH- 33 FEET 2)SPACO CORPORATION MAKE LENGTH- 50 FEET <p>SUGAR BELT CONVEYER :</p> <p>QTY.- TOTAL- 7 NOS MAKE- GROUP ENGG. SANGLI SIZE- 20 FEET- 1 NO., 30 FEET- 2 NOS, 50 FEET- 4 NOS.</p>	
<p>MOLASSES WEIGHING SCALE :</p> <p>MOLASSES MAGNETIC FLOW METER IS PROVIDED MAKE = ADEPT, PUNE.</p>	

	<p>TYPE = MAGNETIC. CAPACITY = 50M³/HR. PIPE SIZE = 100MM</p> <p>FINAL MOLASSES STORAGE TANK : M.S. TANK HAVING CAPACITY – 3000M³ DIAMETER – 20.0 MTR HEIGHT- 9.75 MTR</p> <p>OVERHEAD WATER TANK 3 NOS. TOTAL (HOT & COLD) 2 NOS.- COLD WATER.- 15M³/EACH 1 NO.- HOT WATER- 15M³</p> <p>D.M. PLANT / R.O. PLANT : 1) DM PLANT MAKE – STRUCHRAL PENTAIR WATER , PUNE. CAPACITY – 5 M3/HR 2) RO PLANT CAPACITY – 10 M3/HR 2) D. M. WATER STORAGE TANK :ONE NUMBER SIZE – DIA. X HEIGHT = VOLUME 2.85 MTRS X 6.30 MTRS =40M³</p>	
	SUB TOTAL OF BOILING HOUSE	
3.	<u>BOILER AND POWER PLANT AND CO-GENERATION</u>	
	<p>A)BOILER : MACHINE NO. MR14862 1) ONE NUMBER OF WATER TUBE BOILER 2) STEAM PRESSURE – 50 KG/CM² 3) MAKE – GBIP, PUNE 4) STEAM GENERATION CAPACITY – 40 MT/HR. 5) HEATING SURFACE - 2097 SQ. METERS 6) S.H. HEATING SURFACE – 298 SQ. METERS. 7) SUPER HEATER OUTLET TEMP - 510°C ± 10°C 8) FEED WATER TEMP - °C= 95°C</p> <p>B)BOILER FEED WATER TREATMENT : 1) EXHAUST CONDENSATE OF A) EVAPORATED BODY1, B) PAN NO. 1TO 4 EXHAUST CONDENSATE WATER 2) MAKE D.M. PLANT HAVING CAPACITY OF 5 M³/HR 3) RO PLANT HAVING CAPACITY OF 10 M3/HR</p> <p>C) ECONOMIZERS & FEED WATER HEADERS : 1) ONE NOS. INTEGRAL TYPE 2) TYPE – PLANE COIL TYPE 3) DESIGN PRESSURE - 65KG/CM²G 4) HYDRAULIC TEST PRESSURE – 68KG/CM² 5) DESIGN TEMPERATURE - 185°C 6) HEATING SURFACE – 535 SQ. MTRS. 7) TUBE SIZE – 38.1Ø X 3.658 X 175268MM 8) NO. TO COILS – 26 NOS 9) FEED WATER FLOW MCR – 45T 10)RETRACTABLE SUIT BLOWER</p>	

	<p>D) BOILER FEED WATER PUMPS- 3 NOS. 1)TWO NOS- KIRLOSKAR EBARA MAKE TYPE-100X80MSSH10M HEAD-650MTRS, RATE OF FLOW-45 M³/HR, DRIVE- 160KW, RPM-2970 2)KSB MAKE TYPE-H D A-50/B, RATE OF FLOW-25M³/HR, HEAD-620M, DRIVE-90KW, RPM-2980</p>	
	<p>POWER PLANT : TYPE- BACK PRESSURE TURBINE A)POWER TURBINE : MAKE- TRIVENI INLET PRESSURE- 45KG/CM2(G) EXHAUST STEAM PRESSURE- 2.5 ATA SPEED- 8226RPM INLET TEMP.-500°C± 10°C KW-8000 (8MW) ELECTRIC ALTERNATOR : MAKE- TDPS, RPM- 1500, KW- 8000 B)POWER TURBINE TYPE- CONDENSING & DOUBLE EXTRACTION TYPE MAKE- GEC MAKE INLET PRESSURE- 45KG/CM2(G). EXTRACTION PRESSURE- 1.41KG/CM2(G) SPEED- 5000RPM INLET TEMP.-440°C± 10°C STEAM PRESSURE INLET TO CONDENSER- 0.06KG/CM2(G) OUTPUT KW- 5000 & RPM = 5000 ELECTRIC ALTERNATOR : MAKE- GCS MAKE TYPE- BOTH & BRG TYPE RPM- 1500 KW-5000 D)DIESEL ENGINE SET : QUANTITY : 3 NOS. A)MAKE- CROMPTON GREAVES MAKE 250KVA/313HP MODEL- TBD3V8 SR. NO.- 13060860486 ALTERNATOR- 250KVA/440VOLTS/3PHASE/50CYCLE SR. NO. GAA-0056 MODEL-GIR 315 SE INSTALLATION YEAR- 2007 B)MAKE- CUMMINS 500KVA/400KW MODEL- PTS/KF14-01 ALTERNATOR- 500KVA/440VOLTS/3PHASE SR. NO. N12G311094 INSTALLATION YEAR- 2012</p>	

	<p>C)PORTABLE GENSET : 30KVA, KIRLOSKAR MAKE E)POWER HOUSE OVERHEAD CRANE : CAPACITY : 25 MT MANUFACTURING YEAR : 2012</p> <p>CO-GENERATION TRANSFORMER CAPACITY : 5000 KVACT RATIO 100/5A VA 20, CI-0.2, - (TOTAL 6 NOS.) PT RATIO : 33 KV/ROUT 3/110/ROUT3/VPA = 100 CI : 0.02 (TOTAL 6 NOS.) TWO POL LINE : 6 KM LINE UPTO FROM SWITCHYARD UPTO JAWALA SUB-STATION AND TRANSFORMER PROVIDED AT THIS STATION. SWITCH YARD WITH POWER EVACUATION SYSTEM3.3 TO33 KV 3.15MVA TRANSFORMER 3.3 TO 415 VOLT FOR IN HOUSE USE. ELECTRICAL DISTRIBUTION SYSTEM INSIDE THE FACTORY :- ELECTRICAL POWER TRANSMITTING SYSTEM CONTINUOUSLY WITH PROTECTION RELAY PANELS METERING PANELS , METERING ROOM WITH CONTROL & POWER CABLES AND LIGHTING ARRESTERS AND VARIOUS EARTH PITS AND BUS BARS AND CONDUCTORS WITH SUITABLE INSULATORS & BUSHINGS, STEP DOWN DISTRIBUTION TRANSFORMERS , VARIOUS CABLES IN THE PLANT, VARIOUS MCC AT VARIOUS LOCATIONS ,PANEL BOARD ILLUMINATION SYSTEM.</p>	
	SUB TOTAL BOILER AND POWER PLANT AND CO-GENERATION	
4.	<u>WORKSHOP MACHINERY</u>	
	<p>A) LATHE MACHINE: MAKE – RAVI MACHINE TOOLS, RAJKOT CENTRE HEIGHT – 235MM, BED LENGTH – 1245MM ELECTRIC MOTOR – ELMARK MAKE/3HP/1420RPM</p> <p>2) LATHE MACHINE MAKE – SANI IND. RAJKOT TYPE –RJT, SIZE – 6’ X 10” CENTRE – 310MM HEIGHT. BED LENGTH – 1245MM 3)ROLLER GROOVING LATH MACHINE MAKE – GDR SIZE – 16’ X 24” CENTRE HEIGHT – 630MM BED LENGTH– 5000MM ELECTRIC MOTOR – 10 HP/1440 RPM</p> <p>B) SHAPING MACHINE : MAKE – BATLIBOI. STROKE LENGTH – 630MMX630MM MOTOR MAKE/HP/RPM – BATLIBOI /3/1430 STROKE -7”X7”³178MMX178 MM</p> <p>C) HACK SAW – MACHINE : SIZE 1¼” X 14”, MAKE – SHREE AMBICA. MOTOR MAKE/HP/RPM = JETIX/1.5HP/1370 RPM</p> <p>D) DRILLING MACHINE : TWO NUMBER – RADIAL DRILLING MACHINE – 32MM CAP. MAKE – PRAKASH, TYPE - RADIAL TYPE DRILL SIZE - 3MM TO 30MM ELECT MOTOR MAKE/HP/RPM- SIEMENS/0.5HP/0.37KW RPM-1440SIZE – 1” DRILL MACHINE NO. 2 MAKE - PANCHAL, AHMADABAD CAPACITY - 3MM TO 19MM ELECTRIC MOTOR MAKE/HP/RPM = SIEMENS/01/1400RPM</p>	

	<p>E) BENCH GRINDER :</p> <p>1) TWO NUMBERS.</p> <p>2) WHEEL DIA – 200MM</p> <p>3) ELECTRIC MOTOR – 075HP/2800RPM</p> <p>4) MAKE – ELECTRO MFG COMPANY .</p> <p>F) SLOTTING MACHINE :</p> <p>1) MAKE – MORAL / SIZE – 12”.</p>	
	SUB TOTAL OF WORKSHOP EQUIPMENT	
5.	<u>INSTRUMENTATION</u>	
	<p>CONTROL INSTRUMENT :</p> <p>A) AUTO CANE FEED CONTROL UNIT INSTRUCTION SYSTEM SATARA</p> <p>B) P. R. D. S. UNIT :</p> <p>1) MAKE – BEP ENGINEERS PUNE. 20 TPH</p> <p>C) AIR COMPRESSOR:</p> <p>1) MAKE – ANEST EWATA CAPACITY – 9 – 1 CFW WORKING PRESSURE – 100 PSIG (7KG/CM2G)</p> <p>D) AUTO IMBIBITION TEMPERATURE : 30 MT /HR CAPACITY</p> <p>E) BOILER INSTRUMENTATION</p> <p>1) MAKE – DN 50 CL600 DEMBLE</p> <p>F)CHAIN PULLEY BLOCKS: CAPACITY @5MT IN STORE SECTION</p> <p>LABORATORY INSTRUMENT :</p> <p>1) LAB CANE CRUSHER – ONE NUMBER. MAKE – KARJGER, KOLHAPUR. MOTOR MAKE/HP/RPM – LAKSHMI/7.5/1440</p> <p>2) RAPI – POLE EXTRACTOR – ONE NUMBER. MAKE– ACROWINDIA LTD. MOTOR - 1.5HP/3000RPM.</p> <p>3)SCROPOLE</p> <p>4) OVEN – ONE NUMBER MAKE – MIC (INDIA) MODEL – MIC – 160 RANGE – 5°C TO250°C.</p> <p>5) MUFFLE FURNACE – ONE NUMBER. MAKE – MIC (INDIA)RANGE – 28°C TO 1200°C.</p> <p>6) POLARIMETER – ONE NUMBER. MAKE – SUCROPOL, PUNE</p> <p>7) SCIENTIFIC BALANCE – ONE NUMBER MAKE – CONTECH ,MUMBAI.</p>	
	SUB TOTAL OF INSTRUMENTATION	
6.	<u>EFFLUENT TREATMENT PLANT :</u>	
	<p>SUPPLIED BY AVIS INDIA LTD. PUNE CAPACITY : 200 M3/DAY. IT INCLUDES MACHINERY OF OIL AND GREASE COLLECTION TANK OIL AND GREASE SEPARATOR, EQUALIZATION TANK, PRIMARY AND SECONDARY CLARIFIER : 2 NOS. AERATION TANK, TREATED WATER TANK, MULTI BED SAND FILTER, SLUDGE DRYING BED, (ON LINE MONITORING SYSTEM WORK IS IN PROGRESS.)</p>	
	SUB TOTAL OF EFFLUENT TREATMENT PLANT	
7.	<u>PUMP AND MOTOR :</u>	
	<p>FOR JACKWELL</p> <p>A) MAKE – DECON INDUSTRIALS TYPE - VERTICAL SUBMERSIBLE SPEED – 2880, SIZE - 100 MM, CAPACITY – 880 M3/HR.</p>	

	<p>TOTAL HEAD – 64 M, DRIVE MOTOR – 30 HP MAKE/HP/RPM- 30/2880</p> <p>B) MAKE – DECCEN</p> <p>TYPE - VERTICAL SUBMERSIBLE</p> <p>SPEED – 2880, SIZE -75 MM, CAPACITY – 880 M3/HR.</p> <p>TOTAL HEAD – 64 M, DRIVE MOTOR – 17.5 HP</p> <p>MAKE/HP/RPM- 17.5/2880</p> <p>*LIST OF MOTORS IS ATTACHED.</p>	
	SUB TOTAL PUMP AND MOTORS	
8.	<u>PIPING'S, VALUES & MS STRUCTURE</u>	
	<p>VARIOUS DIAMETER & LENGTH SS TUBES FOR STEAM, RAW WATER, JUICE HEATERS, SEMICASENERS , ROBERTS BODIES , PANS, AND VARIOUS SIZE MS PIPING FOR COLD WATER , HOT WATER, VAPOUR STEAM , MOLASSES, ETC.</p>	
	<p>STRUCTURAL STEEL</p> <p>CONSISTING OF VARIOUS THICKNESS MS PLATE, CHANNELS, I BEAMS, ANGLE, FLAT TRIP, CHEQUERED PLATES ETC.</p>	
	<p>VALVES:</p> <p>VARIOUS DIAMETER AND TYPE LIKE GATE, GLOBE, FABRICATED IN LINE AND RIGHT ANGLE VALVES OF SUITABLE MATERIAL OF CONSTRUCTION OF EITHER FLANGE TYPE OR BUTT WELDED TYPE BOTH ENDS , OTHER THEN IBR VALVE</p>	
	SUB TOTAL PIPING'S , VALVES & MS STRUCTURE	
9.	<u>BULLOCK CARTS</u>	
	<p>BULLOCK CARTS FOR THE FARMERS REPORTEDLY ABOUT 200 NOS. FOR THE FARMERS.</p>	