

Bidding Document for Procurement of Construction of office building and laboratory at various CPC sites (Package No.: CPC-CW02)

Corrigendum – 1

The Para 8 of the bid document under Section 6: Employer's Requirements should be read as below:

1. The proposed Clean Plant Centre's are –

- i. National Research Center for Grapes (NRCG), Pune, Maharashtra
- ii. Indian Institute of Horticultural Research (IIHR), Bangalore, Karnataka
- iii. Central Citrus Research Institute (CCRI), Nagpur, Maharashtra
- iv. Central Institute for Temperate Horticulture (CITH), Srinagar, J&K
- v. Central Institute for Temperate Horticulture (CITH), Mukteshwar, Uttarakhand
- vi. National Research Center on Pomegranate (NRCP), Solapur, Maharashtra
- vii. Central Institute for Subtropical Horticulture (CISH), Lucknow, Uttar Pradesh
- viii. Central Institute of Arid Horticulture (CIAH), Bikaner, Rajasthan
- ix. CAR – Central Institute for Subtropical Horticulture (CISH), Regional Station, Malda, West Bengal

An office building and laboratory is planned for each of the above-mentioned Institutes. This Bid Document is meant for Construction of office building and laboratory at **seven CPC sites** as follows –

- i. Lot 1 – Mukteshwar & Lucknow
- ii. Lot 2 – Solapur & Nagpur
- iii. Lot 3 – Bengaluru
- iv. Lot 4 – Bikaner
- v. Lot 5 – Malda

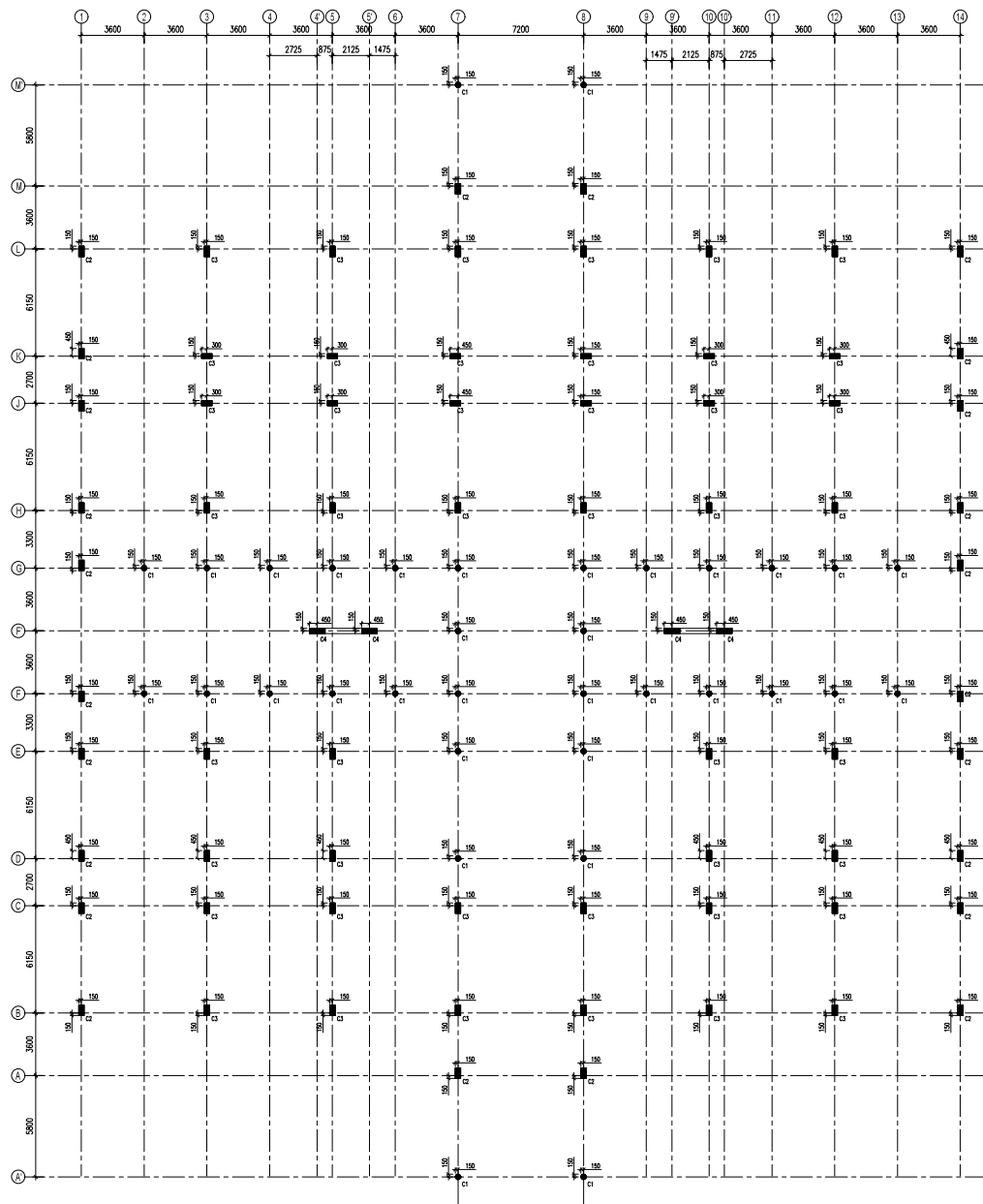
The BOQ for the mentioned work at each location is based on the CPC Building and Laboratory at Pune. Following activities will part of each lot of work to awarded to each successful contractor –

- Site survey and Geotechnical investigation with at least 3 SPTs for foundation design.
- Preparation of the site development plan including CPC Building and Laboratory, Containment Facility and other buildings. ICAR/NHB will provide necessary technical input for preparation of the plans.
- Preparation of site and building plans in the requisite formats and detailing for taking approval from the local body. The contractor will provide requisite support (like preparation of the documents and drawings with print copies) to each of the ICAR Institute in obtaining the local body approval for the building plans.
- The site development plan and various activities will be prepared in line with the attached BOQ and utilize the items mentioned therein to avoid deviation in quantities

to the extent possible.

- The contractor will submit the GFC drawings, revised BOQ with comparison of all activities / items of work for approval of the ICAR Institute/NHB/MoAFW/ADB before execution.

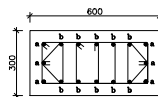
The drawings and BOQ attached with Bid Document for CPC, Pune are for the guidance of the contractor. The contractor will prepare separate GFC drawings for each site as per Lot the awarded in line with the items and quantities mentioned therein. The CPC Building and Laboratory work above plinth will remain same except for some changes in the foundation design (CPC Building and Laboratory at Mukteshwar may have changes as per terrain and site-specific requirements). Site development drawings will require modifications in consultation with ICAR Institute/NHB. The Contractor is required to engage a team of Architect, Structural/ MEP, HVAC Engineer, draftsmen for preparation of the drawing, BOQ etc and quote the rates accordingly including design and development of drawings, nothing extra will be paid to the contractor on this account.



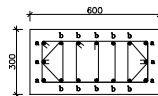
COLUMN LAYOUT PLAN



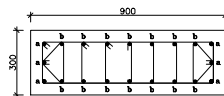
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COLUMN MKID. C1



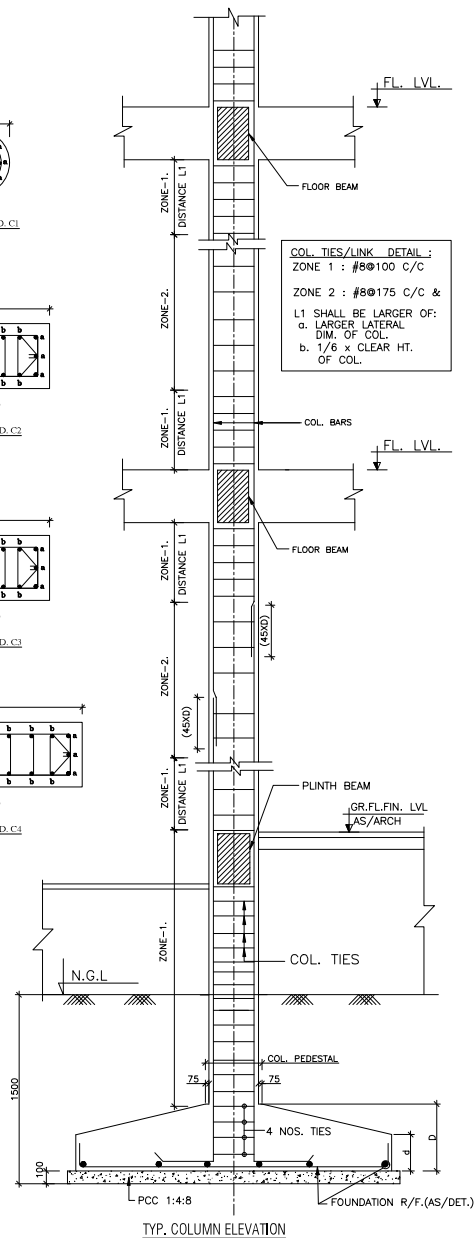
8-200(a)
10-100(b)
COLUMN MKID. C2



8-200(a)
10-200(b)
COLUMN MKID. C3



8-200(a)
14-200(b)
COLUMN MKID. C4



TYP. COLUMN ELEVATION

NOTES AS/FOUNDATION DRG

DISTRIBUTION		
N.O.P.	ISSUED TO	DATE
REV	DESCRIPTION	DATE

CONSULTANT
BUILD TECHNO
 ENGINEERING & CONSULTANTS
 VICTORIA-C-101, GRAND OMADE,
 SECTOR-93B, NOIDA.
 U.P.-201304 MOBILE:-+91-9711069964
 EMAIL:-design.mittal@gmail.com

ARCHITECTS

PROJECT
 PUNE LAB

TITLE
 COLUMN REIN. DETAIL

DESIGN : P. MITTAL	DRG NO. ST- 02
DRAWN : PRASHANT	
CHECKED : P. MITTAL	
SCALE : N.T.S	
DATE : 04.05.28	



STIRRUP SCHEDULE

STRP. MKD.	SIZE
S1	8(2L)@100C/C
S2	8(2L)@150C/C
S3	8(2L)@200C/C
S4	10(2L)@100C/C

DISTRIBUTION		
N.O.P.	ISSUED TO	DATE
REV	DESCRIPTION	DATE
	REVISIONS	

CONSULTANT
BUILD TECHNO
 ENGINEERING & CONSULTANTS
 VICTORIA-C-101, GRAND OMADE,
 SECTOR-93B, NOIDA,
 U.P.-201304 MOBILE:-+91-9711089964
 EMAIL:-design.mittal@gmail.com

ARCHITECTS

PROJECT
 PUNE LAB

TITLE
 BEAM DETAILS AT PLINTH LEVEL

DESIGN : P. MITTAL	DRG NO. ST- 3A
DRAWN : PRASHANT	
CHECKED : P. MITTAL	
SCALE : N.T.S	
DATE : 04.05.26	



NOTES AS/FOUNDATION DRG

DISTRIBUTION		
N.O.P.	ISSUED TO	DATE
REV	DESCRIPTION	DATE
	REVISIONS	

CONSULTANT

BUILD TECHNO
ENGINEERING & CONSULTANTS
VICTORIA-C-101, GRAND OMAXE,
SECTOR-93B, NOIDA.
U.P.-201304 MOBILE:-+91-9711069964
EMAIL:-design.mittal@gmail.com

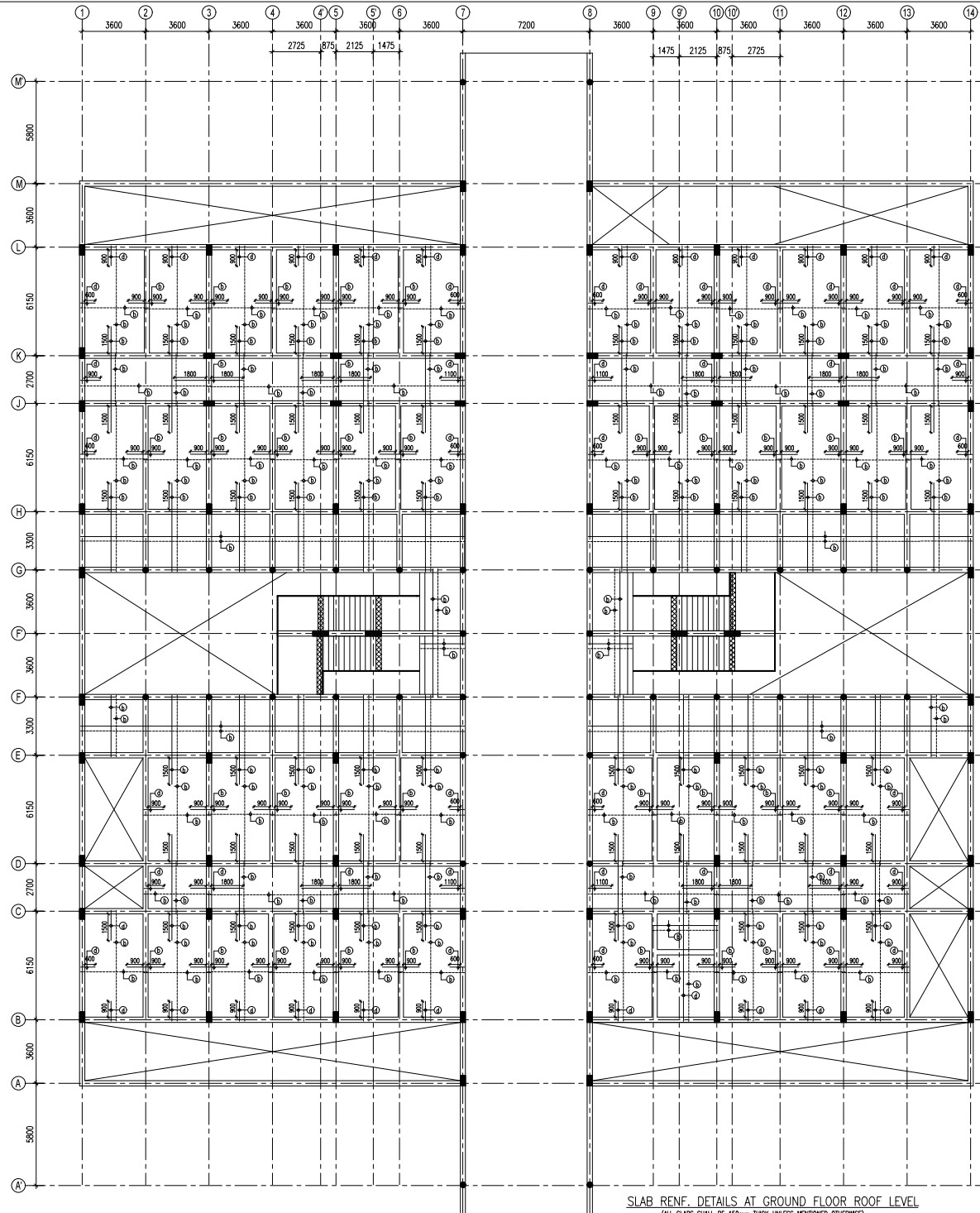
ARCHITECTS

PROJECT

TITLE	FRAMING PLAN AT PLINTH LEVEL
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DESIGN : P. MITTAL	DRG NO. ST-03
DRAWN : PRASHANT	
CHECKED : P. MITTAL	
SCALE : N,T,S	
DATE : 04.05.26	

ST-03



NOTES AS/FOUNDATION DRG

SLAB REINFORCEMENT SCHEDULE

BAR. MKD.	SIZE
a	8@100C/C
b	8@125C/C
c	8@150C/C
d	8@175C/C
e	8@200C/C
g	12@100C/C
h	10@100C/C

----- TOP BAR
----- BOTTOM BAR

DISTRIBUTION		
N.O.P.	ISSUED TO	DATE
REV	DESCRIPTION	DATE
REVISIONS		

CONSULTANT **BUILD TECHNO**
ENGINEERING & CONSULTANTS
VICTORIA-C-101, GRAND OMALE,
SECTOR-93B, NOIDA.
U.P.-201304 MOBILE:-+91-9711069964
EMAIL:-design.mittal@gmail.com

ARCHITECTS

PROJECT
PUNE LAB

TITLE
SLAB RENF. DETAILS AT
GROUND FLOOR/ROOF LEVEL

DESIGN : P. MITTAL	DRG NO. ST- 4A
DRAWN : PRASHANT	
CHECKED : P. MITTAL	
SCALE : N.T.S	
DATE : 04.05.28	



DISTRIBUTION		
N.O.P.	ISSUED TO	DATE
REV	DESCRIPTION	DATE

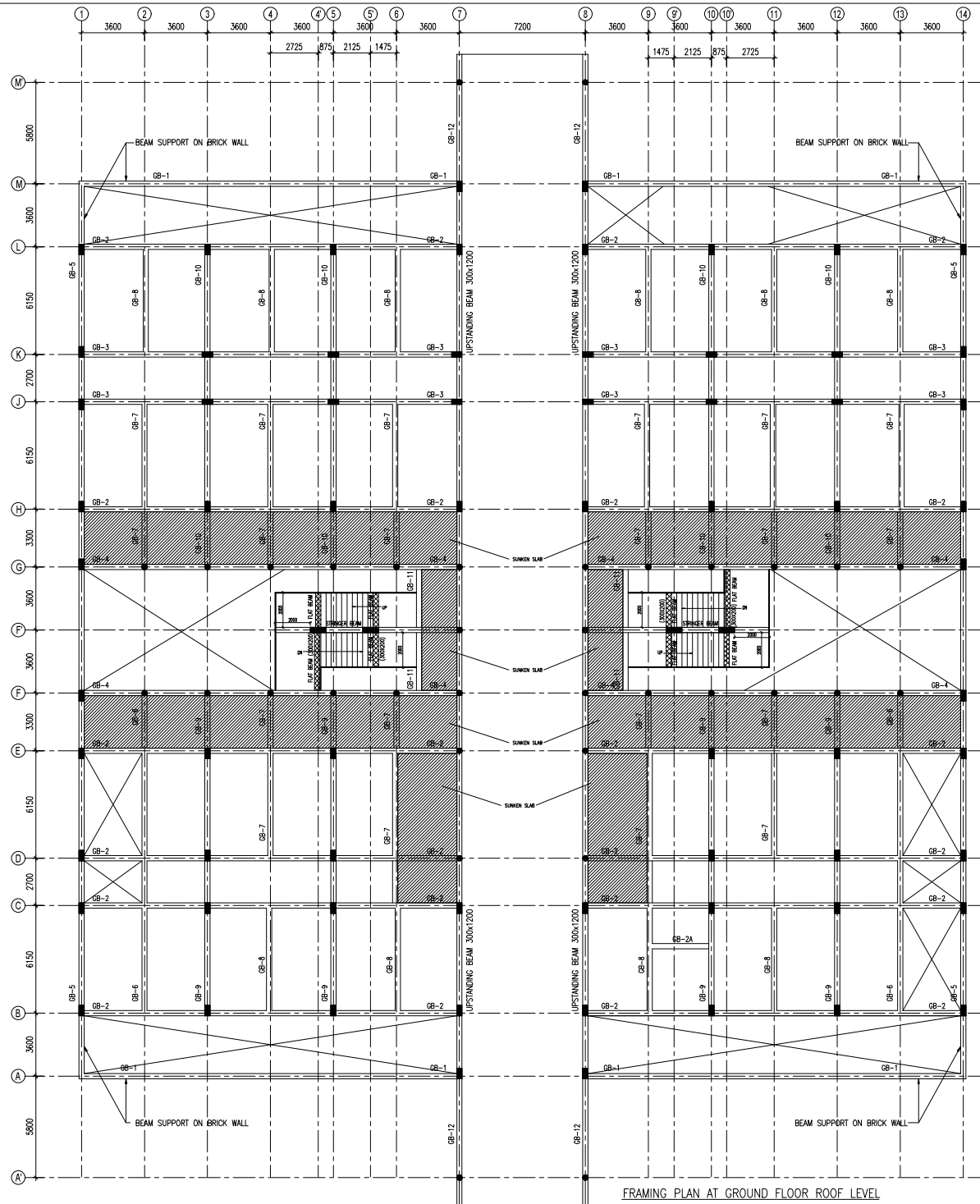
CONSULTANT
BUILD TECHNO
 ENGINEERING & CONSULTANTS
 VICTORIA-C-101, GRAND OMAE,
 SECTOR-93B, NOIDA,
 U.P.-201304 MOBILE:-+91-9711069964
 EMAIL:-design.mittal@gmail.com

ARCHITECTS

PROJECT
 PUNE LAB

TITLE
 BEAM DETAILS AT
 GROUND FLOOR ROOF LEVEL

DESIGN : P. MITTAL	DRG NO. ST- 4B
DRAWN : PRASHANT	
CHECKED : P. MITTAL	
SCALE : N.T.S	
DATE : 04.05.26	



NOTES AS/FOUNDATION DRG

DISTRIBUTION		
N.O.P.	ISSUED TO	DATE
REV	DESCRIPTION	DATE
REVISIONS		

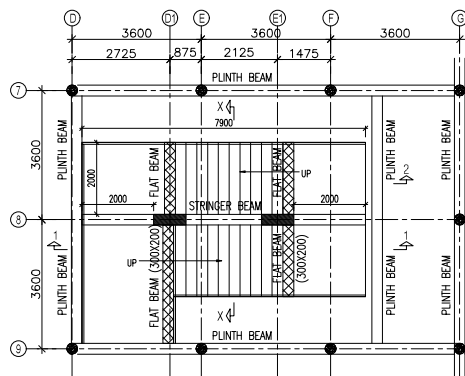
CONSULTANT
BUILD TECHNO
 ENGINEERING & CONSULTANTS
 VICTORIA-C-101, GRAND OMALE,
 SECTOR-93B, NOIDA.
 U.P.-201304 MOBILE:-+91-9711069964
 EMAIL:-design.mittal@gmail.com

ARCHITECTS

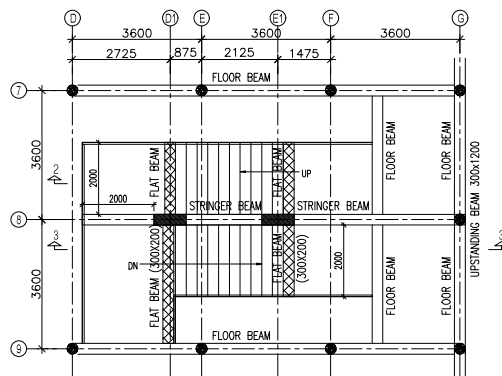
PROJECT
 PUNE LAB

TITLE
 FRAMING PLAN AT GROUND FLOOR ROOF LEVEL

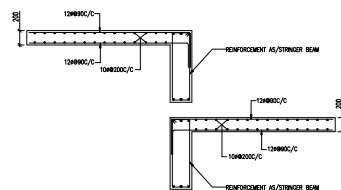
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DATE : 04.05.26	



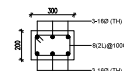
STAIRCASE PLAN AT PLINTH LVL.
NO. OF STEPS,TREAD, RISER & STAIRCASE WIDTH AS/ARCH. DRG.



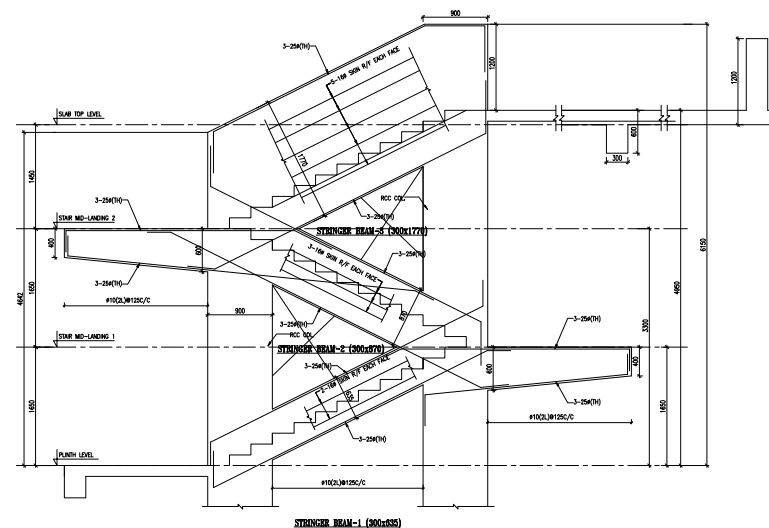
STAIRCASE PLAN AT GROUND FLOOR LVL.
NO. OF STEPS,TREAD, RISER & STAIRCASE WIDTH AS/ARCH. DRG.



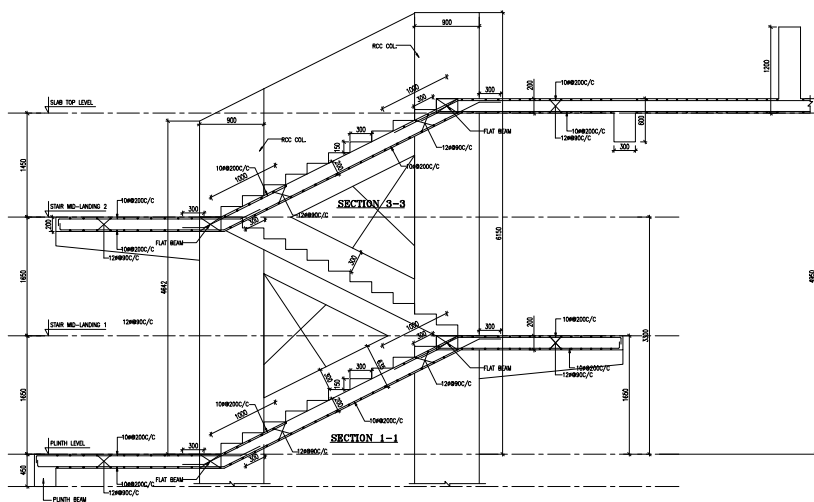
SECTION X-X



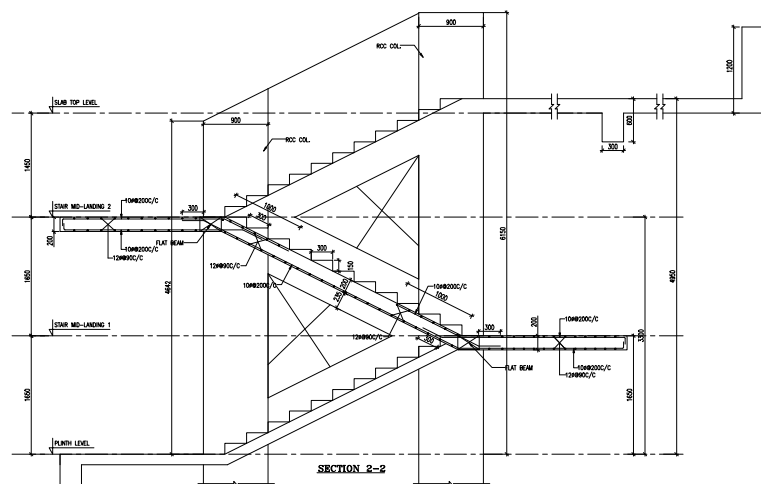
FLAT BEAM DETAIL



STRINGER BEAM-1 (300x635)

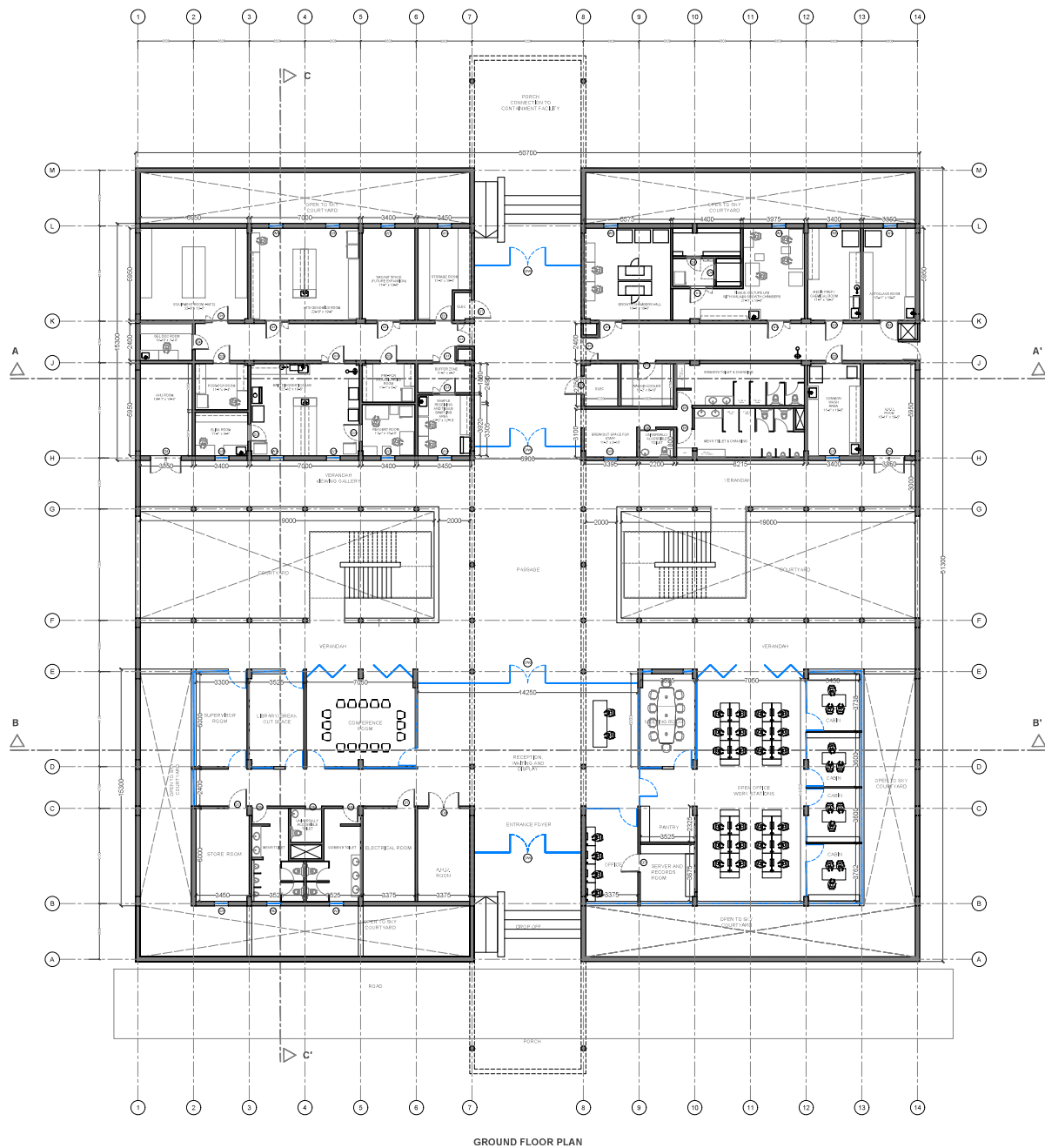


SECTION 1-1



SECTION 2-2

DISTRIBUTION		
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REV	DESCRIPTION	DATE
	REVISIONS	
CONSULTANT		
BUILD TECHNO ENGINEERING & CONSULTANTS VICTORIA-C-101, GRAND OMAXE, SECTOR-93B, NOIDA. U.P.-201304 MOBILE: +91-9711069964 EMAIL:-design.mittal@gmail.com		
ARCHITECTS		
PROJECT		
PUNE LAB		
TITLE		
STAIRCASE DETAIL		
DESIGN : P. MITTAL	DRG NO.	
DRAWN : PRASHANT		
CHECKED : P. MITTAL		
SCALE : N.T.S		
DATE : 04.05.26		
		ST-05



- ARCHITECT'S NOTES:**
- THIS DRAWING SUPERCEDES ALL PREVIOUS VERSIONS
 - ALL DIMENSIONS IN THIS DRAWING ARE TO BE READ AND NOT MEASURED
 - ALL DIMENSIONS IN MILLIMETERS UNLESS MENTIONED OTHERWISE
 - HEIGHTS ARE TO BE MEASURED WITH REFERENCE TO ROAD LEVEL (ASSUMED AS 40)
 - UNLESS MENTIONED OTHERWISE, ALL WALLS ARE 230MM THK OR 150MM THK BRICK WALLS

FOR TENDER REVIEW

DOORS AND WINDOWS SCHEDULE				
S.NO.	DOOR NAME	SIZE	HT.	W.D.
1	D1	1500 X 2400	-	2400
2	D2	1100 X 2400	-	2400
3	D3	1200 X 2400	-	2400
4	D4	1000 X 2400	-	2400
5	D5	1000 X 2400	-	2400
6	D6	1000 X 2400	-	2400
7	D7	1200 X 2400	-	2400
8	D8	1000 X 2400	-	2400
9	D9	1100 X 2400	-	2400
10	D10	1200 X 2400	-	2400
11	D11	1200 X 2400	-	2400
12	D12	1200 X 2400	-	2400
13	D13	1200 X 2400	-	2400
14	D14	1200 X 2400	-	2400
15	D15	1200 X 2400	-	2400
16	D16	1200 X 2400	-	2400

CLIENT:
NATIONAL HORTICULTURE BOARD

PROJECT NAME:
CPC AT NRG-G PUNE

PROJECT ADDRESS:
MANJRI, PUNE

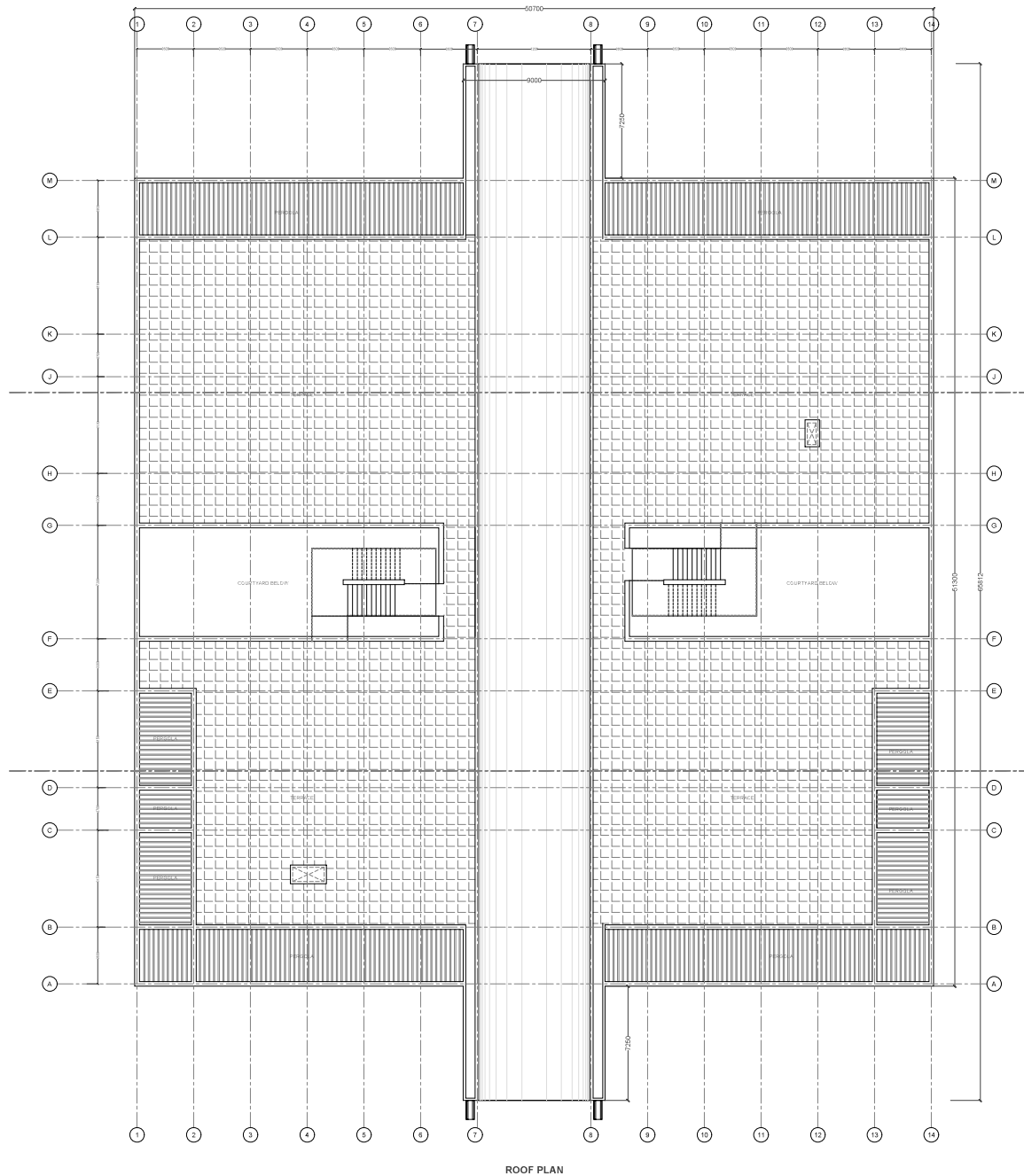
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SCALE: 1:200
DRAWN: NG
CHKD: AM
APPRD: [Signature]

DRAWING NAME:
GROUND FLOOR PLAN

DRAWING NUMBER:
A-101 (R2)

ARCHITECTS:
STUDIO SVARUP
Coll. First Floor. Sector 14, Road 1, Manjri, Pune.

AND
CCBA DESIGNS PVT. LTD.
ARCHITECTS AND URBAN PLANNERS
PLOT NO. 10, SECTOR 14, MANJRI, PUNE
PIN-411004
EMAIL: info@ccba.in



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 - UNLESS MENTIONED OTHERWISE, ALL WALLS ARE 230MM THK OR 150MM THK BRICK WALLS

FOR TENDER REVIEW

CLIENT:
NATIONAL HORTICULTURE BOARD

PROJECT NAME:
CPC AT NRC-G PUNE

PROJECT ADDRESS:
MANJRI, PUNE

DATE: 25-04-2021
SCALE: 1:200
DRAWN: AM
CHECKED: AM
APPROVED:



DRAWING NAME:
ROOF PLAN

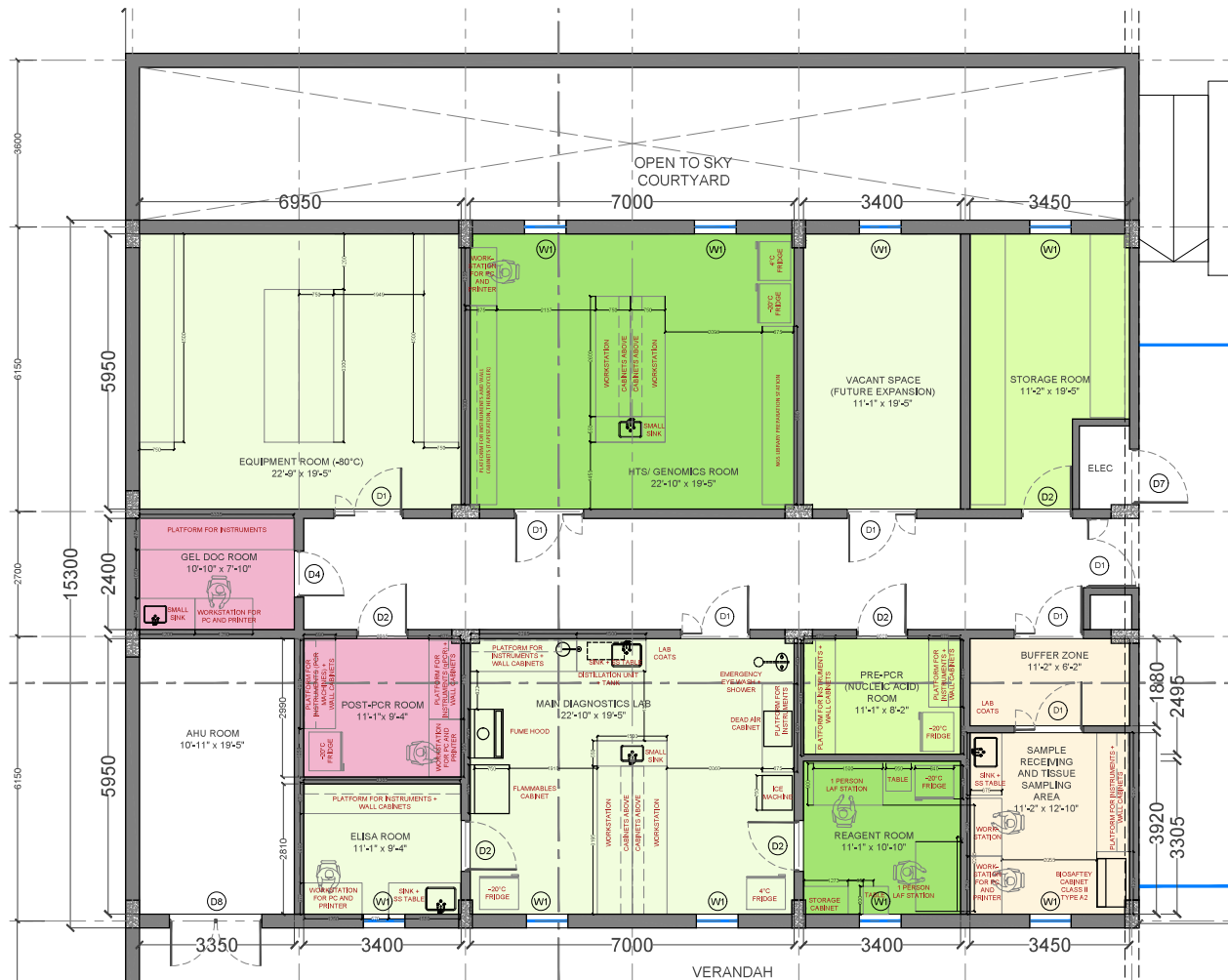
DRAWING NUMBER:
A-102 (R2)

ARCHITECTS:
STUDIO SVARUP
CCBA DESIGNS PVT. LTD.
ARCHITECTS AND URBAN PLANNERS
PLOT-11/11/12, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



FOR TENDER REVIEW

E-Mail: ccob@ccob.n www.zccob.n



AIR PRESSURE KEY

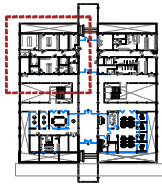
- NEGATIVE AIR PRESSURE (DIRTY ROOM)
- NEGATIVE OR NEUTRAL AIR PRESSURE
- POSITIVE OR NEUTRAL AIR PRESSURE
- POSITIVE AIR PRESSURE
- HIGHEST POSITIVE AIR PRESSURE (CLEAN ROOM)

MAIN LAB WING
GROUND FLOOR PLAN
EQUIPMENT LAYOUT

ARCHITECT'S NOTES:

- THIS DRAWING SUPERSEDES ALL PREVIOUS VERSIONS
- ALL DIMENSIONS IN THIS DRAWING ARE TO BE READ AND NOT MEASURED
- ALL DIMENSIONS IN MILLIMETERS UNLESS MENTIONED OTHERWISE
- HEIGHTS ARE TO BE MEASURED WITH REFERENCE TO ROAD LEVEL ASSUMED AS 40
- UNLESS MENTIONED OTHERWISE, ALL WALLS ARE 200MM THK OR 150MM THK BRICK WALLS

KEYPLAN:



FOR TENDER REVIEW

CLIENT:
NATIONAL HORTICULTURE BOARD

PROJECT NAME:
CPC AT NRC-G PUNE

PROJECT ADDRESS:
MANJRI, PUNE

DATE: 25-04-2021

SCALE: 1:75

DRAWN: AM

CHECKED: AM

APPROVED:

DRAWING NAME:

MAIN LAB WING

EQUIPMENT LAYOUT

DRAWING NUMBER:

A-111

ARCHITECTS:

STUDIO
SVARUP

AND

CCBA DESIGNS PVT. LTD.

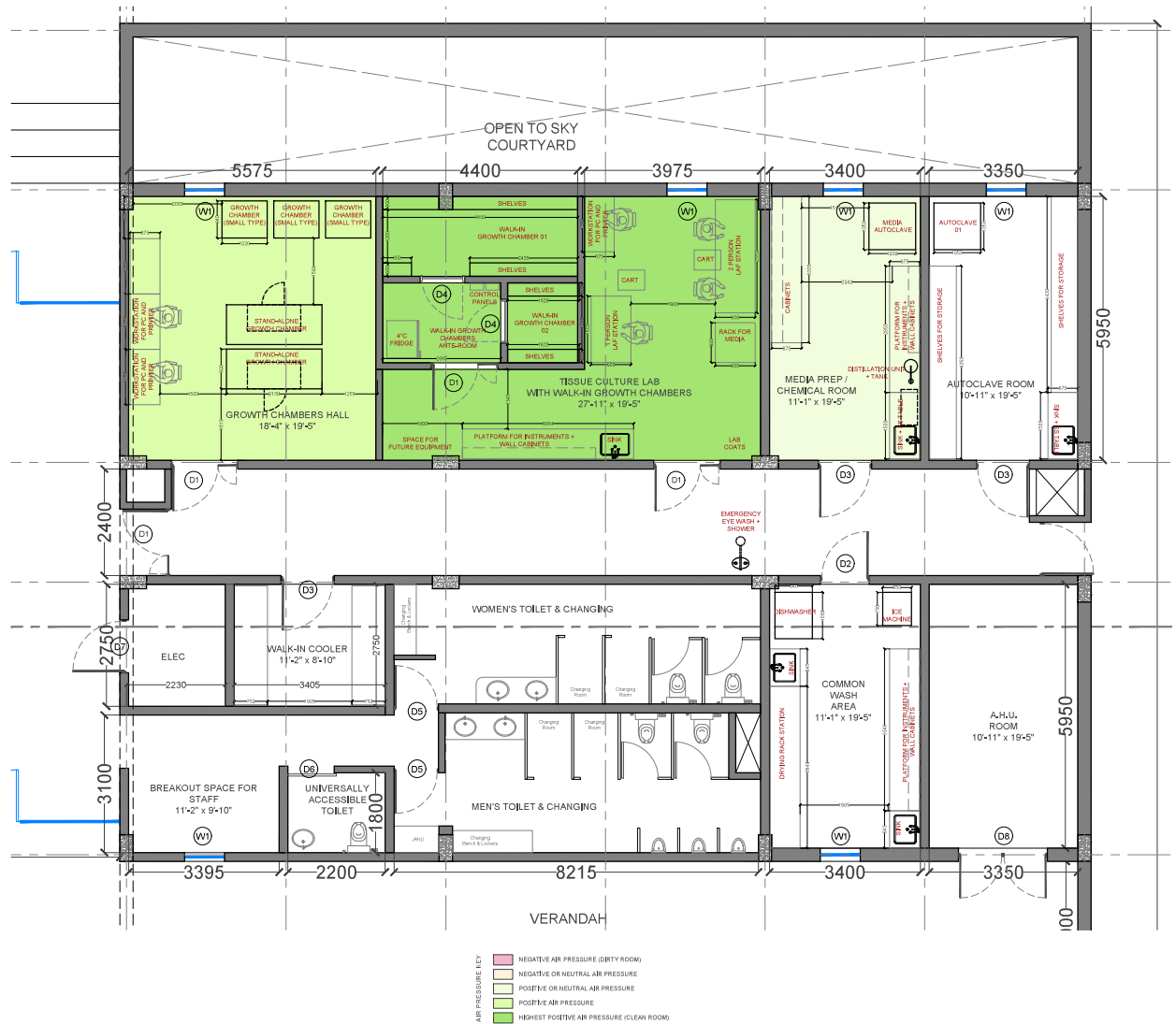
ARCHITECTS AND URBAN PLANNERS

FOR PROJECT: 15, SORANA ROAD, SORANA, PUNE

FOR USE TO: (FOR PROJECT)

EMAIL: info@svarup.com

WWW.SVARUP.COM

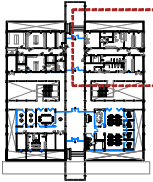


TISSUE CULTURE WING
GROUND FLOOR PLAN
EQUIPMENT LAYOUT

ARCHITECT'S NOTES:

- THIS DRAWING SUPERCEDES ALL PREVIOUS VERSIONS
- ALL DIMENSIONS IN THIS DRAWING ARE TO BE READ AND NOT MEASURED
- ALL DIMENSIONS IN MILLIMETERS UNLESS MENTIONED OTHERWISE
- HEIGHTS ARE TO BE MEASURED WITH REFERENCE TO ROAD LEVEL (ASSUMED AS 40)
- UNLESS MENTIONED OTHERWISE, ALL WALLS ARE 200MM THK OR 150MM THK BRICK WALLS

KEY PLAN:



FOR TENDER REVIEW

CLIENT:
NATIONAL HORTICULTURE BOARD

PROJECT NAME:
CPC AT NRC-G PUNE

PROJECT ADDRESS:
MANJRI, PUNE

DATE: 25-04-2021
SCALE: 1:50
DRAWN: AM
CHECKED: AM
APPROVED:

DRAWING NAME:
TISSUE CULTURE WING
EQUIPMENT LAYOUT

DRAWING NUMBER:
A-112

ARCHITECTS:
STUDIO
SVARUP

AND
CCBA DESIGNS PVT. LTD.
ARCHITECTS AND URBAN PLANNERS
PLOT-11/10/12, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000



ARCHITECT'S NOTES:

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- ALL DIMENSIONS IN THIS DRAWING ARE TO BE READ AND NOT MEASURED
- ALL DIMENSIONS IN MILLIMETERS UNLESS MENTIONED OTHERWISE
- HEIGHTS ARE TO BE MEASURED WITH REFERENCE TO ROAD LEVEL (ASSUMED AS R/L)
- UNLESS MENTIONED OTHERWISE, ALL WALLS ARE 200MM THK OR 150MM THK BRICK WALLS

KEYPLAN:

FALSE CEILING KEY:

600mm x 600mm GRID CEILING

SEAMLESS FALSE CEILING

LIGHTS SYMBOLS KEY:

600mm x 600mm SQUARE GRID CEILING LIGHT

LINEAR GRID CEILING LIGHT 150mm WIDE

CIRCULAR SURFACE MOUNTED CEILING LIGHT

CIRCULAR RECESSED CEILING DOWN LIGHT

DIRECTIONAL WALL MOUNTED LIGHT (UP-DOWN PAIR)

CEILING SUSPENDED UP-DOWN LIGHT

FOR TENDER REVIEW

CLIENT:

NATIONAL HORTICULTURE BOARD

PROJECT NAME:

CPC AT NRC-G PUNE

PROJECT ADDRESS:

MANJRI, PUNE

DATE: 05-05-2021

SCALE: 1/10

DRAWN: AM

CHECK: AM

APPROVED:

DRAWING NAME:

TISSUE CULTURE WING REFLECTED CEILING PLAN

DRAWING NUMBER:

A-403

ARCHITECTS:

STUDIO SVARUP

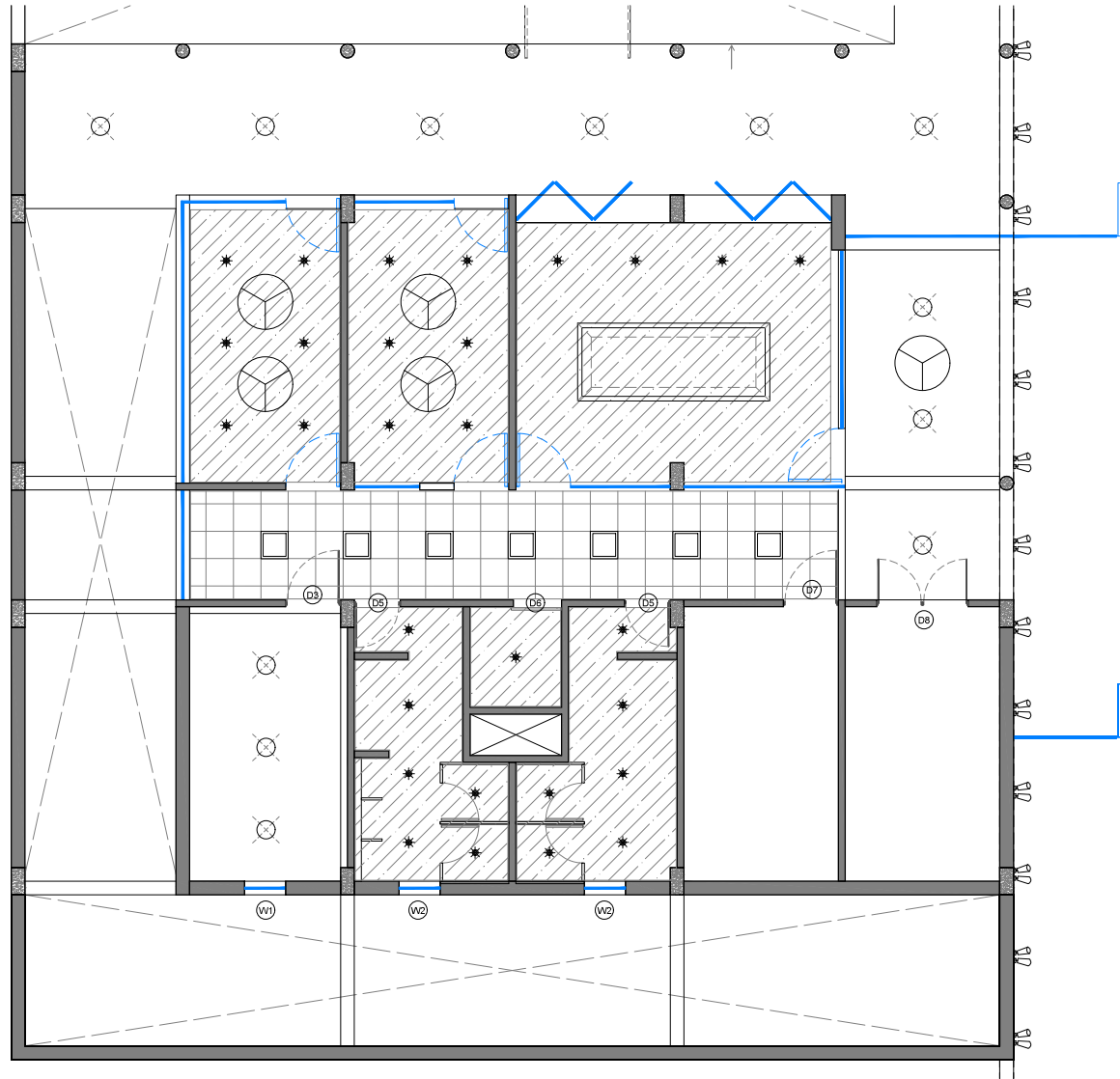
CCBA DESIGNS PVT. LTD.

ARCHITECTS AND URBAN PLANNERS

PROJECT: TISSUE CULTURE WING, NRC-G PUNE

CONTACT: 020-26111111

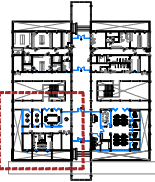
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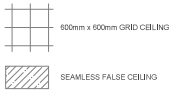
ARCHITECT'S NOTES:

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- UNLESS MENTIONED OTHERWISE, ALL WALLS ARE 200MM THK OR 150MM THK BRICK WALLS

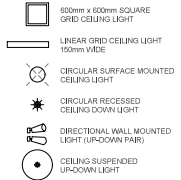
KEYPLAN:



FALSE CEILING KEY:



LIGHTS SYMBOLS KEY:



FOR TENDER REVIEW

CLIENT:

NATIONAL HORTICULTURE BOARD

PROJECT NAME:

CPC AT NRC-G PUNE

PROJECT ADDRESS:

MANJRI, PUNE

DATE:

14-01-2021

SCALE:

1:75

DRAWN:

AM

CHECKED:

AM

APPROVED:

DRAWING NAME:

CONFERENCE WING

REFLECTED CEILING PLAN

DRAWING NUMBER:

A-404

ARCHITECTS:

STUDIO SVARUP

CCBA DESIGNS PVT. LTD.

ARCHITECTS AND URBAN PLANNERS

FOR UPDATES: 10, SORAYA ROAD, SARVODAYA PUNE

CONTACT: 020-26100000

WWW.CCBA.PK

ARCHITECT'S NOTES:

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- ALL DIMENSIONS IN MILLIMETERS UNLESS MENTIONED OTHERWISE
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KEYPLAN:



FALSE CEILING KEY:

600mm x 600mm GRID CEILING

SEAMLESS FALSE CEILING

LIGHTS SYMBOLS KEY:

600mm x 600mm SQUARE GRID CEILING LIGHT

LINEAR GRID CEILING LIGHT 150mm WIDE

CIRCULAR SURFACE MOUNTED CEILING LIGHT

CIRCULAR RECESSED CEILING DOWN LIGHT

DIRECTIONAL WALL MOUNTED LIGHT (UP-DOWN PAIR)

CEILING SUSPENDED UP-DOWN LIGHT

FOR TENDER REVIEW

CLIENT:
NATIONAL HORTICULTURE BOARD

PROJECT NAME:
CPC AT NRC-G PUNE

PROJECT ADDRESS:
MANJRI, PUNE

DATE: 14-01-2025

SCALE: 1:75

DRAWN BY: AM

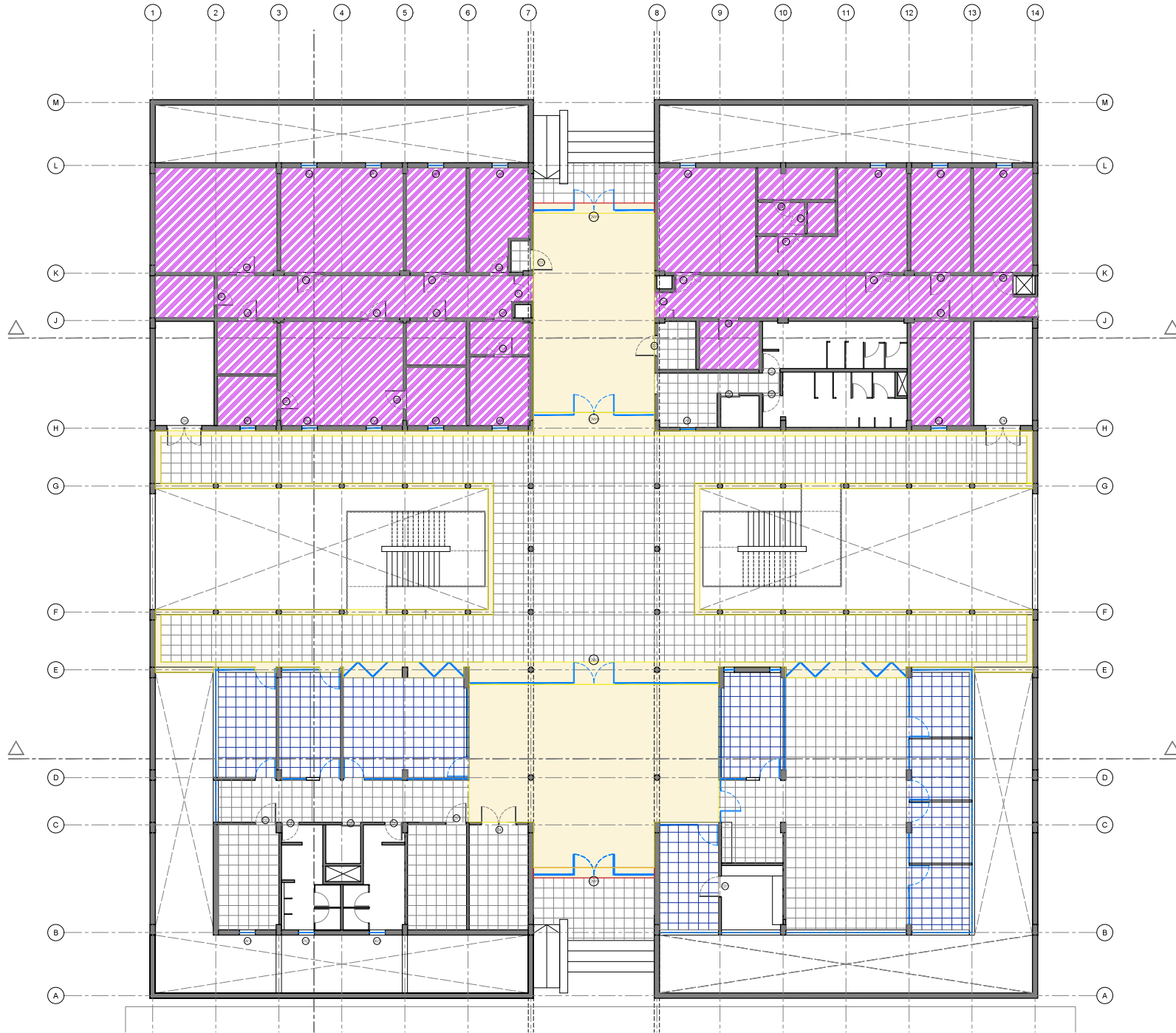
CHECKED BY: AM

APPROVED BY:

DRAWING NAME:
OFFICE WING
REFLECTED CEILING PLAN

DRAWING NUMBER:
A-405

ARCHITECTS:
STUDIO SVARŪP
CCBA DESIGNS PVT. LTD.
ARCHITECTS AND URBAN PLANNERS
PLOT-11/12/13, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 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ARCHITECT'S NOTES:

- THIS DRAWING SUPERCEDES ALL PREVIOUS VERSIONS
- ALL DIMENSIONS IN THIS DRAWING ARE TO BE READ AND NOT MEASURED
- ALL DIMENSIONS IN MILLIMETERS UNLESS MENTIONED OTHERWISE
- HEIGHTS ARE TO BE MEASURED WITH REFERENCE TO ROAD LEVEL (ASSUMED AS 40)
- UNLESS MENTIONED OTHERWISE, ALL WALLS ARE 230MM THK OR 150MM THK BRICK WALLS

FLOORING KEY:

- 52MM THK L.P.S. FLOORING
- TERRAZZO TILES - WHITE
- DOUBLE POLISHED KOTA STONE FLOORING
- MIRROR POLISHED KOTA STONE FLOORING

FOR TENDER REVIEW

CLIENT:
NATIONAL HORTICULTURE BOARD

PROJECT NAME:
CPC AT NRC-G PUNE

PROJECT ADDRESS:
MANJRI, PUNE

DATE: 14-01-2023
SCALE: 1:100
DRAWN BY: AM
CHECKED BY: AM
APPROVED BY:

DRAWING NAME:
GROUND FLOOR FLOORING LAYOUT

DRAWING NUMBER:
A-251

ARCHITECTS:
STUDIO SVARUP
CCBA DESIGNS PVT. LTD.

ARCHITECTS AND URBAN PLANNERS:
CCBA DESIGNS PVT. LTD.
PLOT NO. 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 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Social Safeguards Due Diligence Report

October 2023

India: Building India's Clean Plant Program

Prepared by National Horticulture Board, Government of India for the Asian Development Bank.

ABBREVIATIONS

ADB	–	Asian Development Bank
APEDA	–	Agricultural and Processed Food Products Export Development Authority
CITH	–	Central Institute of Temperate Horticulture
CPC	–	Clean Plant Center
CPP	–	Clean Plan Program
DDR	–	Due Diligence Report
GRC	–	Grievance Redressal Committee
ICAR	–	Indian Council of Agricultural Research
NHB	–	National Horticulture Board
NRC	–	National Research Center
MIDC	–	Maharashtra Industrial development Corporation
MoAF	–	Ministry of Agriculture and Farmers Welfare
PIU	–	Project Implementation Unit
PMU	–	Project Management Unit
SPS	–	Safeguard Policy Statement

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I. INTRODUCTION

A. Background of the Project

1. The agricultural sector contributes around 18.3% to India's gross value added (GVA),¹ with over half of the working-age population engaged in related activities. India aims to double farmers' income, focusing on horticulture which constitutes 33% of the agricultural GVA.² Recent years have seen horticultural production rise, driven by population growth, changing preferences, and government initiatives. India is now the world's second-largest producer of fruits and vegetables, especially mangoes, bananas, and guavas. Despite challenges, optimizing land and water resources is crucial for satisfying domestic demand and boosting horticultural productivity.

2. India has invested in enhancing farm productivity through measures like irrigation, agricultural extension, and input provision. However, a significant obstacle to boosting horticultural crop productivity is the proliferation of plant viruses, causing yield losses of 10% to 30%,³ with more severe cases like grapevine leafroll disease leading to up to 50% reductions. These viral diseases hinder tree growth, resulting not only in lower yields but also reduced product quality and marketability. Unfortunately, viral diseases are challenging to treat in the field, underscoring the importance of disease-free planting materials for orchards, a critical aspect currently lacking in India's propagation of fruit and nut plants.

3. India's efforts to enhance farm productivity involve investments in irrigation, agricultural extension, and inputs like fertilizers. However, a significant hurdle in increasing horticultural crop productivity is the spread of plant viruses, causing yield losses of 10%–30%. More damaging diseases like grapevine leafroll can result in around 50% yield reductions.⁴ Viral diseases hinder tree growth, reducing both yields and product quality, posing challenges for treatment in the field. Starting orchards with disease-free planting materials is crucial for effective disease control, yet in India, such materials are not tested and certified for disease-free status.

4. Certifying planting materials as disease-free is essential because viral infections aren't visibly detectable by farmers and require laboratory testing of plant samples. Most farmers purchase propagated planting materials from nurseries, which, if infected, lead to decreased yields and lower product quality. Ensuring healthy planting materials through certification can prevent such losses, and nurseries' propagation methods should be inspected under certification schemes.

5. The Mission for Integrated Development of Horticulture (MIDH) aims to improve horticulture production via quality germplasm and planting materials. Although the National Horticulture Board accredits nurseries under MIDH and the Nursery Registration Act, current guidelines don't mandate disease-free planting materials. To address this, a shift from "quality" to "disease-free" planting materials is necessary. The Atmanirbhar Clean Plant Program,

¹ Ministry of Agriculture and Farmers Welfare. 2023. [Annual Report 2022-23](#). New Delhi, Government of India.

² Ministry of Agriculture and Farmers Welfare, Government of India. 2018. [Horticultural Statistics at a Glance 2018](#). New Delhi.

³ Singh Kumar Kapoor. 2017. [Economic Analysis on Plant Disease and Pest Management in India](#). Global journal of pests, diseases and crop protection. March 2017. Mumbai.

⁴ A. N. Rayapati et al. 2008. [Grapevine Leafroll Disease](#). Washington State Extension Bulletin April 2008.

backed by the Government of India and the Asian Development Bank, seeks to provide disease-free planting materials through public investment and redefine the roles of public and private nurseries.

6. The Government of India's Atmanirbhar Clean Plant Program aims to offer disease-free planting materials with a budget of approximately \$280 million. This program will redefine the roles of public and private nurseries, focusing on disease-free foundation blocks and monitoring mechanisms. Private nurseries will be encouraged to propagate clean planting materials using certified procedures.

7. The project aims to enhance horticulture crop yields, quality, and climate resilience, while introducing and expanding the use of certified disease-free planting materials among target crop farmers, initially focusing on almond, apple, avocado, berries, citrus, grapes, guava, litchi, mango, pomegranate, and walnut. The project's outputs and interventions will encompass:

- (i) **Output 1: Institutional and regulatory frameworks, and knowledge network for clean plant program established and operationalized.** The project will establish regulatory frameworks and institutional environment to operationalize the clean plant program for horticulture in India. This will be done in partnership with private nurseries, researchers, state governments, and in consultation with growers' associations. More specifically, the output will: (a) update (through notifications) the Model Nursery Registration Act approved in 1954 and the Seed Act approved in 1966 to add the clean plant certification and nursery accreditation scheme into the regulatory framework; (b) support key horticulture production states to update (through notifications) or prepare the state nursery act, following the notifications of the Model Nursery Registration Act; (c) support horticulture private nurseries to establish a national nursery association to support growth of horticulture nursery industry; (d) enhance capacities of MoAFW, NHB and ICAR staff for better management of the CPP; (e) develop a pool of workforce in plant health management through training module development and implementation, internships, and exchange programs; and (f) enhance knowing-sharing and communication amongst relevant stakeholders about the CPP and raise public awareness about the benefits of using certified clean planting materials. Output 1 will be implemented by the NHB.
- (ii) **Output 2: Clean plant centers established and operationalized.** The project will establish virus-tested target crop propagation stock in clean plant centers and specialize these centers in new techniques for detection and elimination of the most common and economically important virus and virus-like pathogens affecting production of target crops (almond, apple, avocado, berries, citrus, grapes, guava, litchi, mango, pomegranate, and walnut) in India. The clean plant centers will maintain foundation plants free from diseases so that nurseries can propagate disease-free planting materials from them. More specifically, this output will: (a) develop at least six public clean plant centers (CPC) across India that will comprise: quarantine blocks for all the domestic and imported materials that are intended for commercial propagation; laboratories for diagnostic testing and tissue culture; and foundation blocks to maintain and distribute clean planting materials from climate resilient varieties to certified nurseries; (b) develop and train CPC staff in standard operating procedures of CPC and diagnostic testing protocols; (c) research and improve diagnostic testing and testing methods; and (d) contribute to the stakeholder forum and decision-making process. Output 2 will be implemented by newly created CPCs, hosted by the

- Indian Council of Agricultural Research (ICAR)'s crop-specific institutes.⁵
- (iii) **Output 3: Certified Clean Planting Materials produced by accredited nurseries.** Private nurseries' participation in the certification scheme is voluntary. Once the candidate nurseries are assessed and accredited under the certification scheme, they are not allowed to sell disease-affected planting materials. The project will test their planting materials, inspect the nursery facilities, and audit the certification scheme, ensuring that certified clean planting materials, which horticulture farmers buy from the accredited nurseries, are free from tested diseases. More specifically, this output will: (a) establish horticulture plant stock certification authority and its provincial branches under NHB; (b) prepare the procedures and requirements for inspection and testing, and for documenting certified plant stocks; (c) enter an agreement between the certification authority under the NHB and participating nurseries; (d) conduct training of trainers and staff in inspection, diagnostics, and certification document management; and (e) support participating nurseries' infrastructure development to be eligible for the production of certified clean planting materials through the public-private-partnership. Output 3 will be implemented by the NHB and ICAR.

B. Scope of Social Safeguards Due Diligence Report

8. This report encompasses the Social Safeguards Due Diligence conducted for the establishment of a minimum of six CPC within the crop-specific institutes of the Indian Council of Agricultural Research (ICAR). The selection criteria for these sites are based on the availability of government land within the ICAR institutes. The designated land area typically ranges from 10 to 25 hectares, with a substantial buffer zone from main production areas to prevent disease transmission from visitors.
9. This due diligence report specifically focuses on the screening and assessment of the land requirement for the establishment of the six CPPs and whether Scheduled Tribes are present or not in the project areas. The report presents the outcomes of the thorough due diligence process undertaken to assess any potential involuntary land and indigenous peoples safeguards issues, all in accordance with the ADB Safeguard Policy Statement (SPS) 2009.
10. The report offers detailed insights into the findings of the due diligence process and includes the provision of relevant supporting documents, minutes of meetings held, and photographs to provide a comprehensive overview of the social safeguard assessment process conducted for the establishment of CPC within ICAR institutes.
11. During project implementation, the Project Management Unit (PMU) will review this draft due diligence report, prepare a confirmation letter or report documenting any modifications to the subproject, and submit it to ADB. Additionally, the PMU will receive a 'no objection' confirmation from ADB prior to contract award under the subproject.

⁵ The Indian Council of Agricultural Research (ICAR) was set up by the Government of India in 1929 as an autonomous organization under the Department of Agricultural Research and Education, Ministry of Agriculture and Farmers Welfare. The Union Minister of Agriculture serves as its president. ICAR is responsible for coordinating agricultural education and research in India.

II. SUBPROJECT DESCRIPTION

12. The subproject entails the establishment of CPC's which encompasses several key components:

- (i) The CPC will encompass dedicated quarantine blocks to accommodate both domestically sourced and imported materials intended for commercial propagation. It will also house specialized laboratories equipped for diagnostic testing and tissue culture processes. Additionally, the center will maintain mother blocks designed to cultivate and distribute clean planting materials from resilient varieties, thus serving certified nurseries.
- (ii) The subproject will involve the development and training of the CPC's staff in the implementation of standard operating procedures relevant to the center's operations, as well as training in diagnostic testing protocols.
- (iii) The initiative aims to contribute to the advancement of diagnostic testing and its methodologies. Research efforts will be directed towards enhancing diagnostic testing processes, thereby improving the accuracy and effectiveness of disease detection.
- (iv) The subproject will actively engage with stakeholders through a dedicated forum, facilitating an inclusive decision-making process. This involvement will ensure that various perspectives are considered, leading to informed and comprehensive project outcomes.

13. The establishment of the CPC's will encompass crucial elements like advanced quarantine facilities, diagnostic laboratories, mother blocks for clean planting materials, staff capacity building, research-driven enhancements, and stakeholder engagement, all contributing to the center's comprehensive and effective operations.

14. The individual CPC site visit details are provided as an Annexure.

15. Under Output 3, participation of private nurseries in the voluntary certification scheme involves assessment and accreditation by the national horticulture plant stock certification authority established under NHB. These nurseries will be evaluated against criteria developed by the project. The scheme aims to create the horticulture plant stock certification authority, its branches, establish procedures for inspection, testing, documentation of certified plant stocks, form agreements with nurseries, train staff, and aid in infrastructure development through public-private partnership. Only category C private nurseries for IR safeguard will be eligible for funds to support in upgrading their facilities.

16. As part of the activities under output 3, the NHB facility will be upgraded and equipped. As the participating nurseries grow, inspection work will grow as well. By project implementation year 3, it is expected that the NHB certification unit will require an expansion of office space to accommodate growing number of staff. For the office expansion, a lump sum of \$300,000 is allocated.

III. CONSULTATION

17. A consultation meeting was held with officials from selected ICAR Centre's. The purpose of this meeting was to engage with key stakeholders and gather insights regarding the project's establishment of the CPC. The meeting aimed to foster collaboration and ensure effective project implementation in accordance with national policies and ADB SPS 2009.

18. During the consultation, various aspects of the CPC establishment were discussed, including environmental and social safeguards, gender considerations, stakeholder engagement, and financial management. Valuable feedback was received from ICAR Officials. Their insights will contribute to the project's due diligence process. Officials confirmed the availability of a vacant locations within the selected ICAR Institutes, with an additional backup plot within campus. The proposed location for the CPC was agreed upon, and it was confirmed that the entire ICAR Institute campuses are owned on long lease by respective Institutes. Furthermore, officials verified that the project will not affect any Scheduled Tribes or vulnerable community.

19. As part of the project's due diligence, a series of consultations with ICAR officials, staff, farmers, growers, and private nursery owners were conducted from 4 August to 30 August 2023. These consultations involved stakeholders from the six identified CPC establishment locations. The insights gathered from these consultations, along with minutes, photos, and attendance records, are integrated into this Due Diligence Report (DDR).

Table 1: Consultation Conducted

Date	Location	Participants
14 August 2023	National Horticulture Board, Delhi	Selected staff
5 and 29 August 2023	ICAR-National Research Center for Grapes, Pune	Selected staff and farmworkers of the institutes, and selected private nursery operators
28 August 2023	ICAR- National Research Center for Pomegranate, Solapur	Selected staff and farmworkers of the institutes, and selected private nursery operators
12 and 13 September 2023	ICAR- Central Citrus Research Institute, Nagpur	Selected staff and farmworkers of the institutes, and selected private nursery operators
7 and 23 August 2023	ICAR- Indian Institute of Horticulture Research, Bangalore	Selected staff and farmworkers of the institutes, and selected private nursery operators
26 August 2023	ICAR- Central Institute for Subtropical Horticulture, Lucknow	Selected staff and farmworkers of the institutes, and selected private nursery operators
17–18 August	ICAR-Central Institute for Temperate Horticulture, Mukteshwar	Selected staff and farmworkers of the institutes, and selected private nursery operators

IV. INVOLUNTARY RESETTLEMENT

20. The project involves the establishment of six CPC within the premises of crop-specific institutes belonging to the ICAR. The selection of CPC sites is based on the availability of government-owned land within ICAR institutes. These sites, ranging from 10 to 25 hectares, are strategically chosen to maintain a substantial distance from main production areas to prevent disease transmission from visitors.

21. The six proposed CPC locations are all government-owned and are situated within the boundaries of ICAR institutes. The identified plots within the ICAR institutes' premises have been carefully selected to ensure suitability, controlled access, and a lack of encroachments. The establishment of CPCs will not involve any land acquisition, and no physical or economic displacement is anticipated as a direct result of the project.

22. The establishment of CPC within the ICAR institutes' premises adheres to the policy principle of avoiding involuntary resettlement impacts. With the chosen sites being government-owned, securely controlled, and devoid of encroachments, the project does not require any land acquisition or result in any form of physical or economic displacement. There are no restrictions on access to legally designated parks and protected areas. As a result, the project is classified as Category C for involuntary resettlement safeguard, confirming the absence of any involuntary resettlement impacts.

Table 2: Proposed Locations of CPC

Name of Institute	Location	Land ownership	IR Impact
ICAR-National Research Center for Grapes	Pune, Maharashtra	Government/ICAR	None
ICAR- National Research Center for Pomegranate	Solapur, Maharashtra	Government/ICAR	None
ICAR –Central Citrus Research Institute	Nagpur, Maharashtra	Government/ICAR	None
ICAR – Indian Institute of Horticulture Research	Bangalore, Karnataka	Government/ICAR	None
ICAR – Central Institute for Subtropical Horticulture	Lucknow, Uttar Pradesh	Government/ICAR	None
ICAR-Central Institute for Temperate Horticulture	Mukteshwar, Uttarakhand	Government/ICAR	None

23. Under Output 3, participation of private nurseries in the voluntary certification scheme involves assessment and accreditation by the national horticulture plant stock certification authority established under NHB. These nurseries will be evaluated against criteria developed by the project. The scheme aims to create the horticulture plant stock certification authority, its branches, establish procedures for inspection, testing, documentation of certified plant stocks, form agreements with nurseries, train staff, and aid in infrastructure development through public-private partnership. Only category C private nurseries for IR safeguard will be eligible for funds to support in upgrading their facilities.

24. As part of the activities under output 3, the NHB facility will be upgraded and equipped. By project implementation year 3, it is expected that the NHB certification unit will require an expansion of office space to accommodate the growing number of staff. The construction will be within the premises of NHB and there will be no impact on involuntary resettlement safeguard. The land is owned by NHB.

V. INDIGENOUS PEOPLES

25. The project is proposed as Category C in terms of Indigenous Peoples safeguards. The presence of Scheduled Tribes in the six cities where the CPC will be established within six ICAR institutes is limited. These populations are scattered and assimilated within the broader city population. The project does not specifically target the Scheduled Tribes. As for Output 3 of the project, it will enable private nurseries to participate in the certification scheme voluntarily, and candidate nurseries will undergo assessment. The project will not directly or indirectly affect the dignity, human rights, livelihood systems, or culture of Indigenous Peoples or affect the territories or natural or cultural resources that Indigenous Peoples own, use, occupy, or claim as an ancestral domain or asset.

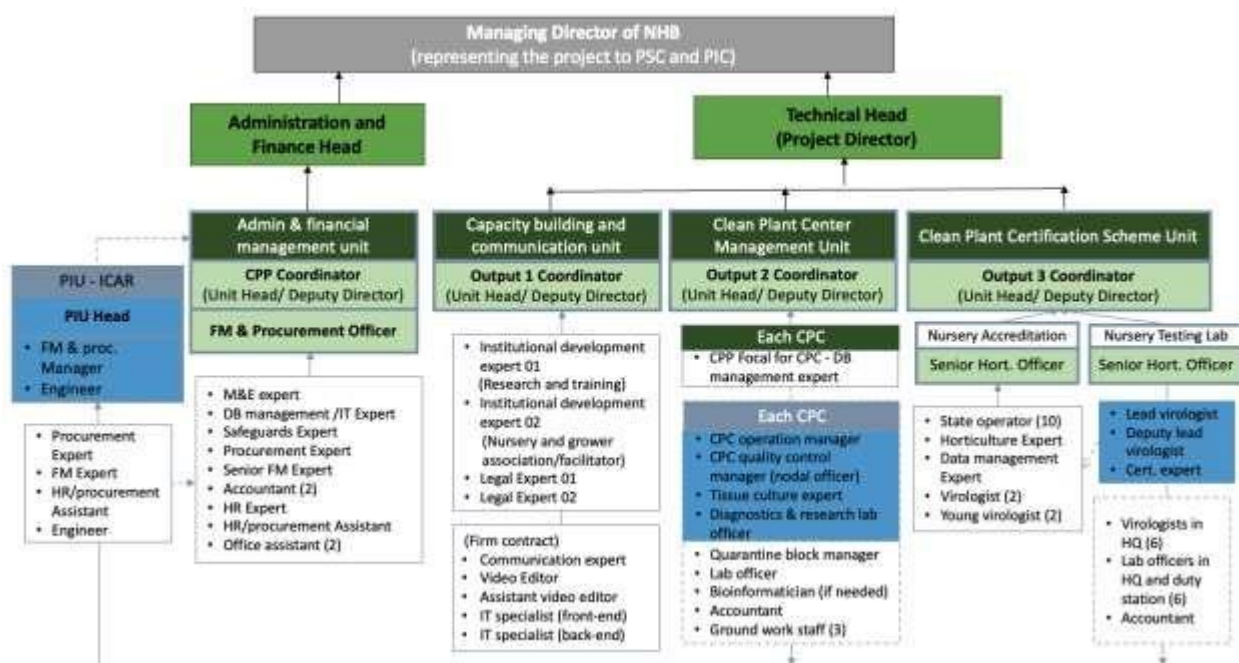
Table 3: Scheduled Tribe Census Details

Locations	States	Total Households of State	Total Population of State	State-wise Population of Schedule Tribes	City	City-wise Population of Schedule Tribes
ICAR-NRC for Grapes	Maharashtra	2,44,21,519	11,23,74,333	1,05,10,213	Pune	348,876
ICAR-NRC for Pomegranate	Maharashtra	2,44,21,519	11,23,74,333	1,05,10,213	Solapur	77,592
ICAR- CCRI	Maharashtra	2,44,21,519	11,23,74,333	1,05,10,213	Nagpur	437,571
ICAR-IIHR	Karnataka	1,33,57,027	6,10,95,297	42,48,987	Bangalore	190,239
					Bangalore Rural	52,903
ICAR-CISH	Uttar Pradesh	3,34,48,035	19,98,12,341	11,34,273	Lucknow	6,904
ICAR CITH	Uttarakhand	20,56,975	1,00,86,292	2,91,903	Mukteshwar	10

Source: Government of India, Ministry of Home Affairs. [Primary Census Abstract Indicators Search Upto Town / Village Level](#)

V. INSTITUTIONAL ARRANGEMENT

26. The project establishes a new wing of clean plant program under NHB to implement the clean plant program for horticulture as a national scheme, partially financed by ADB. The ownership of the project is firmly established within the MoAFW which hosts a steering committee, and its partnership with the Indian Council of Agricultural Research (ICAR) is promoted by engaging ICAR crop specific institutes to establish clean plant centers. Proposed Implementation Arrangement is as per the flowchart below.



VI. GRIEVANCE REDRESS MECHANISM

27. In alignment with ADB SPS 2009, the Clean Plant Program is committed to establishing a robust and transparent Grievance Redress Mechanism (GRM). This mechanism is designed to promptly address concerns and grievances from stakeholders at various levels of the project. The GRM aims to ensure accessibility, fairness, and accountability while fostering collaboration for effective solutions.

28. The primary objective of the GRM is to provide stakeholders with an accessible platform to voice their concerns and grievances. By promptly registering, responding to, and redressing grievances, the mechanism aims to facilitate collaborative problem-solving, identify solutions, and ensure a fair and transparent process. This system will enhance responsiveness, achieve quick resolution, and reduce average disposal time.

29. The Clean Plant Program is committed to maintaining a fair, accountable, and transparent Grievance Redress Mechanism that aligns with international standards and reflects the program's dedication to stakeholder engagement, problem-solving, and effective project implementation. Adjustments and improvements to the mechanism will be made based on practical feedback, ensuring continuous alignment with evolving needs and standards.

30. The National Horticulture Board (NHB), as the Executing Agency (EA), will establish a three-tiered Grievance Redressal Committee (GRC) involving Project Implementation Unit (PIU) within the ICAR. The detailed process of grievance handling will be communicated to all affected parties, along with contact information for the designated grievance handling officer.

Level 1 Grievance Redress Committees (GRC) at CPC level:

- (i) Chairperson: Nodal Officer of the respective institution
- (ii) Members: Selected representatives each from ICAR and CPC, and one representative from the nursery operator.
- (iii) Representative from the contractor

Level 2 Grievance Redress Committee (GRC) at ICAR level:

- (i) Chairperson: Head of ICAR, preferably at Under Secretary level
- (ii) Members: Selected representatives each from NHB, ICAR, and CPC

Level 3 Grievance Redress Committee (GRC) at NHB level:

- (i) Chairperson: Managing Director of National Horticulture Board
- (ii) Members: One representative each from ICAR, MoAFW, and APEDA

Grievance Handling Process

- (i) All complaints will be registered in writing (letter/email) or through phone calls.
- (ii) Complaints will be acknowledged and recorded in a centralized grievance log.
- (iii) A unique receipt/tracking number will be assigned to each complaint for efficient tracking.
- (iv) Grievances will be promptly addressed, with a resolution timeframe of ten working days, based on the nature and complexity.
- (v) Nodal Officers (GRM) will keep complainants informed of progress if delays occur.
- (vi) If a grievance remains unresolved at CPC level, it will be escalated to the Under Secretary at PIU CPP for guidance.
- (vii) A provision for continuous monitoring of the GRM will be in place to ensure its

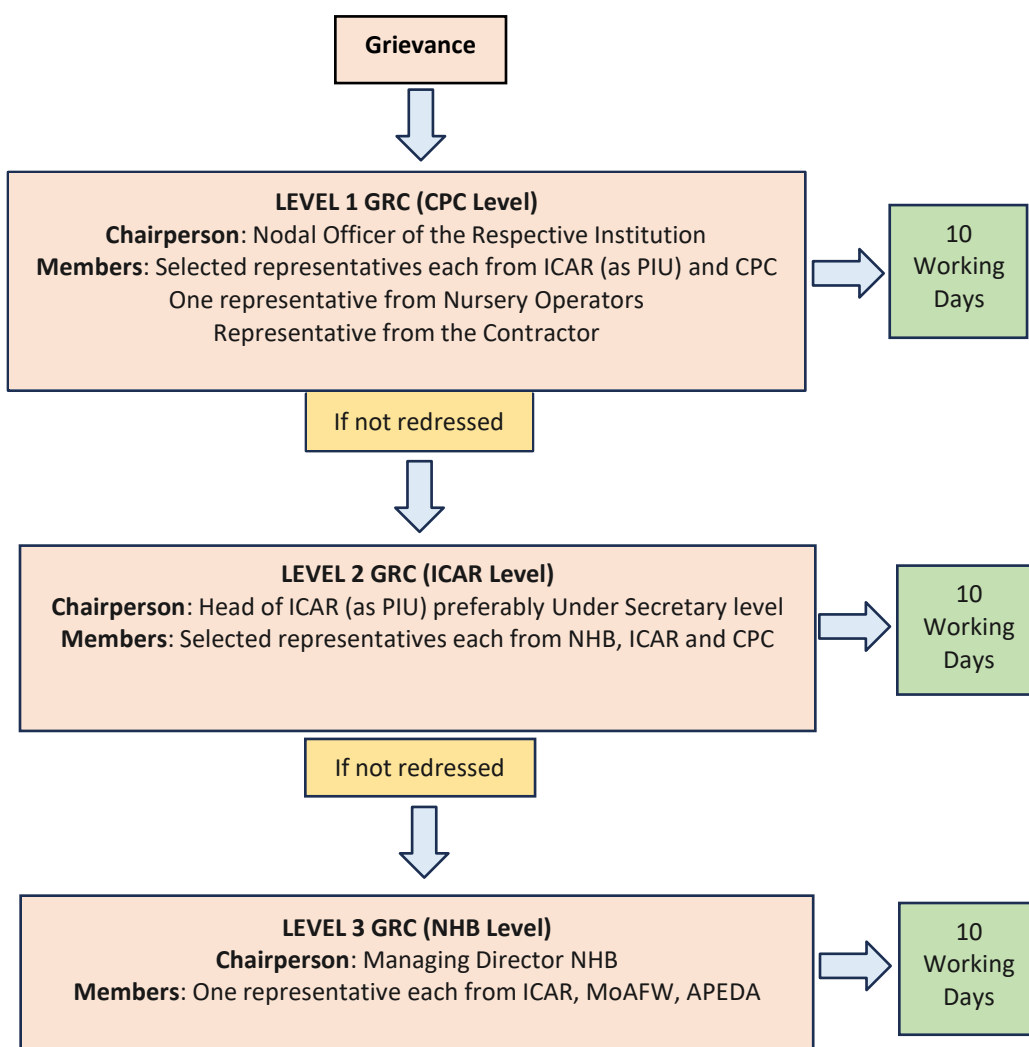
effectiveness.

31. Records of all grievances received, including the complainant's contact details, the date the complaint was received, the nature of the grievance, agreed-upon actions and measures, the date these were implemented, and the outcome will be maintained by the GRM Nodal Officer. The number of recorded and resolved grievances, along with their outcomes, will be displayed/disclosed in the PIU offices, PMU office, on the project website, and reported in the semiannual environmental monitoring reports and the annual progress report submitted to ADB.

32. Grievances received and responses provided will be documented and communicated back to the affected individuals. The phone number for recording grievances will be prominently displayed at the construction sites. All costs associated with resolving the complaints (meetings, consultations, communication, and reporting/information dissemination) will be covered by the PMU.

33. Through this GRM, the Clean Plant Program seeks to enhance accountability, trust, and collaboration among stakeholders, contributing to the program's overall success and positive impact.

Figure 1: Schematic of Grievance Redressal Mechanism



ADB Accountability Mechanism

34. If the established GRM is unable to resolve the issue, the affected person can resort to the ADB Accountability Mechanism by directly contacting (in writing) the Complaint Receiving Officer at ADB headquarters or the ADB India Resident Mission (INRM). Before lodging a complaint with the Accountability Mechanism, it is advisable that affected individuals make a good faith effort to address their concerns by collaborating with the relevant ADB operations department (in this case, the INRM). Only after taking this step and if their dissatisfaction persists, they may approach the Accountability Mechanism.

35. The information about the ADB Accountability Mechanism will be incorporated into the project-related materials disseminated to the affected communities, as part of the project's GRM. Additionally, if needed, the affected individuals can seek recourse in a court of law independently and without being contingent on the outcome of the project's grievance redress process. The court of law operates separately from the project's GRM process.

VII. CONCLUSION

36. In summary, the proposed project aims to establish a minimum of six CPC within ICAR-affiliated institutes, each selected based on the availability of government-owned land. These strategically chosen sites, spanning from 10 to 25 hectares, are meticulously situated to maintain a considerable distance from primary production areas, ensuring the prevention of disease transmission from visitors.

37. All six identified CPC locations, being government-owned and within ICAR premises, have undergone careful selection to guarantee suitability, controlled access, and freedom from encroachments. Importantly, the establishment of CPCs does not entail any land acquisition, thus negating any potential physical or economic displacement resulting directly from the project. ICAR will provide the land ownership certificate and other land documentation, and the DDR will be updated to include these documents. Only category C for IR and category C for IP nurseries will be eligible for funds to support in upgrading their facilities under Output 3. Under output 3 activities, the NHB facility will be upgraded and equipped. By year 3 of project implementation, the NHB certification unit is expected to expand its office space due to a growing staff. This expansion will take place within NHB premises and won't affect involuntary resettlement safeguards, as NHB owns the land.

38. The project's commitment to comply with ADB SPS 2009 and national laws is evident in its adherence to principles. The chosen government-owned sites, well-controlled and encroachment-free, reflect the project's determination to avoid land acquisition and subsequent displacement. The absence of constraints on access to designated parks and protected areas further underscores this commitment, leading to the project's Category C classification for involuntary resettlement safeguards, affirming the absence of such impacts.

39. Additionally, under Indigenous Peoples safeguards, the project aligns with Category C as the project will neither directly nor indirectly affect the dignity, human rights, livelihood systems, or cultural aspects of Scheduled Tribes, nor encroach on their territories, natural resources, or cultural heritage.

Annexures 1: ICAR-NRC - Grapes Site Visit

1. This part of the due diligence report focuses on the ICAR-National Research Center (NRC) for Grapes located in Pune, Maharashtra. The subproject entails the establishment of a CPC for Grapes within the premises of ICAR National Research Center for Grapes in Pune, Maharashtra.
2. A consultation meeting was held with officials from ICAR-NRC for Grapes on 4 August 2023, in Pune, Maharashtra. Valuable feedback was received from ICAR NRC officials, including 11 scientists, and the Director of ICAR-NRC for Grapes, who participated online. Officials confirmed the availability of vacant locations within the ICAR-NRC campus, with an additional backup plot. The proposed location for the CPC was agreed upon, and it was confirmed that the entire ICAR-NRC campus is owned by ICAR.
3. NRC Grapes nursery has been accredited by NHB and is only accredited nursery for grapes in India.
4. One of the selected ICAR institutes is the ICAR-NRC Grapes in Pune, Maharashtra. The actual land measuring 46.78 hectares was leased to ICAR-NRC Grapes on 29 January 1998. The proposed site for the CPC is a vacant plot within the campus, with an additional backupplot, as shown in the photo below.



The vacant land located within ICAR-NRC is proposed for the CPC and covers approximately 25 acres.



This is the alternative location, also located within the campus of ICAR-NRC, just 50 meters away from the proposed location.

Annexures 2: ICAR-CITH Site Visit

1. This part of report covers due diligence report focuses on the ICAR-Central Institute of Temperate Horticulture (CITH), Mukteshwar Uttarakhand.
2. The subproject entails the establishment of a CPC for Temperate Fruits (apple, peach, kiwi, plum, apricot, cherry, pear and walnut) within the premises of ICAR Central Institute of Temperate Horticulture, Mukteshwar Uttarakhand.
3. A consultation meeting was held with officials from ICAR-CITH for Temperate Fruits (apple, peach, kiwi, plum, apricot, cherry, pear and walnut) on 17–28 August 2023 at Mukteshwar, Uttarakhand. Valuable feedback was received from ICAR CITH officials, including 01 Sr. Scientist and Administration Officer of ICAR-CITH for Temperate Fruits. Officials confirmed the availability of a vacant locations within the ICAR-CITH campus, with an additional backup plot. The proposed location for the CPC was agreed upon, and it was confirmed that the entire ICAR-CITH campus is owned by ICAR.
4. ICAR-CITH for Temperate Fruits (apple, peach, kiwi, plum, apricot, cherry, pear and walnut) in Mukteshwar, Uttarakhand. The actual land measuring 52 acres was leased to ICAR-CITH by IVRI on 3 January 1994. Out of this, 48 acres is a Research Land Area and 3.50 acres is an area under buildings. The proposed site for the CPC is within an ICAR-CITH campus, where plantation is already done, with an additional backup plot, as shown in the photos below.



The land located within ICAR-CITH is proposed for the CPC and covers 52.50 acres.



This is the alternative location, also located within the campus of ICAR-CITH, just adjacent from the proposed location.

5. In conclusion to the site visit, one of the chosen ICAR institutes is ICAR-CITH for Temperate Fruits in Mukteshwar, Uttarakhand, occupying an actual land area of 52.50 acres, leased to ICAR-CITH Temperate Fruits since 3 January 1994. The proposed CPC site is available within the campus, supplemented by a backup plot.

Annexures 3: ICAR-NRC - Pomegranate Site Visit

1. The ICAR-National Research Centre on Pomegranate, Solapur (Maharashtra), was established on 16 June 2005 by the Indian Council of Agricultural Research, New Delhi, as a step to strengthen research and development in pomegranate. This is the only institute working solely on pomegranate. The centre was established to fulfill the growing demand for pomegranate both in domestic and export markets by tapping into the immense production potential prevailing in the country.
2. The ICAR-National Research Centre has around 52 ha of land which falls in the jurisdiction of two villages i.e., Kegaon and Hiraj of Solapur district for its Laboratories and Experimental trials. Presently, the ICAR-NRCP has been working at Kegaon, North Solapur Taluk, Solapur District of Maharashtra since June 2012 with the establishment of a newly constructed office-cum-laboratory building.
3. The subproject entails the establishment of a CPC for Pomegranate within the premises of ICAR National Research Centre for Pomegranate at Solapur.
4. Consultation meeting with held with the team at NRC – P in their office on 28 August and while the team was aware of the CPP as Director Dr. Rajiv A Marathe has been involved with CPP since inception as well as selective team members had recently attended training program in Delhi.
5. The proposed site for CPC is within the campus and an alternate site is also identified within 50 meters from primary site.



The vacant land located within ICAR-NRC is proposed for the CPC and covers approximately 25 acres.



This is the alternative location, also located within the campus of ICAR-NRC, just 50 meters away from the proposed location.

Annexures 4: IIHR - Bangalore Site Visit

1. ICAR- Indian Institute of Horticulture Research (IIHR) was established in 1970, IIHR has its main research station at Hessaraghatta, Bengaluru with 263 ha of land and regional experiment station at Bhuvaneshwar in Orissa with two Krishi Vigyan Kendras both located in Karnataka state at Gonikopal in Kodagu and Hirehalli in Tumkur districts. Apart from this, the Project Coordinating Cell of the All India Coordinated Research Project on Fruits is also located at the institute at Bengaluru. The ICAR-Indian Institute of Horticultural Research mainly in fruit varieties like Mango, Guava, Jack Fruit, Dragon fruit and Avocado. A Site Visit by ADB team was undertaken on 8 August 2023.
2. Presently the Institute has a total cadre strength of 714 staff with 150 Scientists 226 technical staff, 83 Administrative staff and 145 supporting staff. The Institute is headed by the Director and supported by various Heads of Divisions.
3. There are two vacant lands proposed for the establishment of the CPC. The first land is 10 hectares land, and the second is a 3 hectares land.



First Location – ICAR-Indian Institute of Horticultural Research vacant land. This is not inside the campus but rather located nearby. It is also well-maintained, surrounded by walls, and free from encroachers.



Second Location – beside the ICAR National Institute of Veterinary Epidemiology and Disease Informatics

Annexures 5: ICAR-CISH - Lucknow Site Visit

1. ICAR- Central Institute of Subtropical Horticulture (CISH) was started as central mango research station in the year 1974 under the aegis of IIHR, Bangalore. The research station was upgraded to a full-fledged institute and further renamed as CISH in June 1995. CISH is proposed to host one of the six clean plant centers (CPC) to be established by the project. The institute will deal with three target crops, namely mango, guava, and litchi.
2. A Site Visit by ADB team was undertaken on 7–8 August 2023. CISH Director Dr. T Damodaran along with his core team were available during the site visit including those to experimental farms.
3. Site for the CPC. CISH has two experimental farms:
 - (i) Rehmankhara farm – 132.5 ha consisting of four blocks, located 25 km away from the city
 - (ii) Raebareli Road – 13.2 km
4. There are no involuntary resettlements or encroachments. There is an adjacent village on one side. The site currently houses nurseries of mango and guava. There is one technician, 10 permanent staff and the rest are contracted workers. During the visit, some male and female workers were seen repotting mango rootstocks.
5. The land has been under lease from the State Government of Uttar Pradesh to CISH since 1973. The lease is for 99 years.
6. CISH has identified a vacant lot measuring 15 hectares located at the CISH experimental station in Rehmankhara as the site where the Clean Plant Center, Lucknow can be established. The area is fenced.



Proposed CPC site at CISH.



The proposed CPC site is in a nursery complex covering an estimated size of 50 ha.

Annexures 6: Site Visit in ICAR-CCRI Nagpur

1. This part of the due diligence report focuses on the ICAR- Central Citrus Research Institute (CCRI) for Citrus fruits located in Nagpur, Maharashtra. The subproject entails the establishment of a CPC for Citrus fruits within the premises of ICAR- Central Citrus Research Institute (CCRI) in Nagpur, Maharashtra.
2. A consultation meeting was held with officials from ICAR-NRC for Grapes on September 13 September 2023, at the CCRI campus, Nagpur, Maharashtra. Valuable feedback was received from ICAR CCRI officials, including the Director of ICAR-CCRI, who was available for opening and closing meeting. Officials confirmed the availability of vacant locations within the ICAR-CCRI campus, with an additional backup plot. The proposed location for the CPC was agreed upon, and it was confirmed that the entire ICAR-NRC campus is owned by ICAR. CCRI has a well-developed nursery for various citrus fruit varieties and their products are in great demand with farmer community.
3. The actual land measuring 100 hectares was leased to ICAR-CCRI Grapes on April 1986. The proposed site for the CPC is a vacant plot within the campus, with an additional backup plot next to the proposed plot.



Figure – Identified land for CPC is unused section adjacent to research polyhouses.



Figure – Alternate land for CPC is unused land with thick foliage adjacent to staff quarters.

Annexures 7: Land Records of NRC Grapes Pune

NRC – Grapes (available in Marathi)

Page 1 of 1

वर्ष: 2022-23	गाव नमुना आठ-अ धारण जमिनीची नोंदवही (कृषिक) (आसामीवार खतावणी - जमावदी पत्रक) तालुका: हवेली							5/22/2023
गाव: मांजरी बु.	जिल्हा: पुणे							
गाव नमुना सहा मधील नोंद	भूमापन क्रमांक व उपविभाग क्रमांक	क्षेत्र	वसुलीसाठी	एकूण				
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दिनांक :- 22/05/2023
सांकेतिक क्रमांक :- 272500070312250000520232673

(नाव :- योगेश्वर रामचंद्र केनिचे)
तलाठी सहाय - मांजरी बु. व ता. हवेली जि. पुणे
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<https://mahafarfarpune.enlightcloud.com/DDM/Report8a>

5/22/2023
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अहवाल दिनांक : 11/10/2022

महाराष्ट्र शासन

गाव नमुना सात (अधिकार अभिलेख पत्रक)
 महाराष्ट्र जमीन महसूल अधिकार अभिलेख आणि नोंदवहा (तयार करणे व सुस्थितीत ठेवणे) नियम, १९७१ यातील नियम ३,५,६ आणि ७।

गाव :- मांजरी बु. (556232)

ULPIN : 26449725093

तालुका :- हवेली

जिल्हा :- पुणे

भूधारणा पध्दती : भोगवटादारा वर्ग - 2

भूमापन क्रमांक व उपविभाग : 32



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गाव नमुना बारा (पिकांची नोंदवही)
 महाराष्ट्र जमीन महसूल अधिकार अभिलेख आणि नोंदवहा (तयार करणे व सुस्थितीत ठेवणे) नियम, १९७१ यातील नियम २९।
 गाव :- मांजरी बु. (556232) तालुका :- हवेली जिल्हा :- पुणे

पिकांखालील क्षेत्राचा तपशील								लागवडीसाठी उपलब्ध नसलेली जमीन	शेरा
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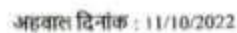
टीप : • सदरची नोंद मोबाइल अॅप द्वारे चेकित आलेली आहे

"या प्रमाणित प्रतीसाठी फी म्हणून ₹५/- रुपये मिळाले."
 दिनांक :- 22/05/2023
 सांकेतिक क्रमांक :- 272500070312250000520231672

(नाव :- मी.वि.रा.न.प.न.कानिचे)
 सहायक जमीन मालकी अधिकारी, हवेली जिल्हा, पुणे
 सा.हवेली, जि.पुणे

<https://mahafarfarpune.enlightcloud.com/DDM/PgHtml712>

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भूमापन क्रमांक व उपविभाग : 33/1

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शेताचे स्थानिक नाव :

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जमे फेरफार क्र (1093 व 4998 व 11682 व 14158 व 14250 व 14493)				सोम आणि धनपान दि.३

महाराष्ट्र जमीन महसूल अधिकार अभिलेख आणि नोंदवहा (हस्तांतरण व सन्निधीत ठेवणे) नियम, १९७१ यातील नियम २५।

तालुका :- हवेली

जिल्हा :- पणे

भूमापन क्रमांक व उपविभाग : 33/1

			पिकाखालील क्षेत्राचा तपशील					लागवडीसाठी उपलब्ध नसलेली जमीन		शेरा
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(मात्र :- योगिता संस्कृत निवे)
सलाही माता :- धर्मोदासा - इहली जि : पण

सामाजिक कार्यकर्ता :- 2725000703 | 225000052023 | 666

ता.क.वे.जी.पूणे

अहवाल दिनांक : 11/10/2022



महाराष्ट्र शासन

गाव नमुना सात (अधिकार अभिलेख पत्रक)

(महाराष्ट्र जमीन महसूल अधिकार अभिलेख आणि नोंदवण (तयार करणे व सुविधीत ठेवणे) नियम, १९७१ यातील नियम १.५.६ आणि ७)



38353935153

गाव :- मांजरी बु. (556232)

तालुका :- हवेली

जिल्हा :- पुणे

ULPIN 38353935153

भूमापन क्रमांक व उपविभाग :- 61/62/178/179

भूधारणा पध्दती :- भोगवटाद्वारा बर्ग -I

शेताचे स्थानिक नाव :-

क्षेत्र, एकक व आकारणी	खाते क्र.	भोगवटाद्वाराचे नांव	क्षेत्र	आकार	पो.ख.	फे.फा.	कुळ, खंड व इतर अधिकार
क्षेत्र एकक हे.आर.सी.मी. (अ) सगळ्याच क्षेत्रांचे क्षेत्र विरासत :- भागवत :- ब.पोट.-ख.रा.व क्षेत्र (सगळ्याच क्षेत्रांचे) म. (अ) 18.31.00 म. (ब) - एकूण पो.ख. 18.31.00 एकूण ख. 18.31.00 (अ+ब) अकारणी 0.00 अ.टी.क्रिया - अकारणी	714	कुलसोबेव महात्मा फुले कृषी विद्यापीठ राहुरी	18%	भारतीय कृषी अनुसंधान संस्थान	16.31.00 (30320)	2.00.00 (15698)	कुळाचे नाव व खंड इतर अधिकार इतर इतर प्रलंबित फेरफार :- नाही. सर्व्हात फेरफार क्रमांक :- व दिनांक :-
मो. फेरफार क्र. (१७१) व १९७७ व ११६८२ व १४२७० व १४२९३ व २९२२१)							सोमा अर्जल भूमापन सि.ई.

गाव नमुना बारा (पिकांची नोंदवणी)

(महाराष्ट्र जमीन महसूल अधिकार अभिलेख आणि नोंदवण (तयार करणे व सुविधीत ठेवणे) नियम, १९७१ यातील नियम २९)

गाव :- मांजरी बु. (556232)

तालुका :- हवेली

जिल्हा :- पुणे

61/62/178/179

			पिकांखालील क्षेत्राचा तपशील					तागवडीसाठी उपलब्ध नसलेली जमीन		शेरा
वर्ष	हंगाम	खाता क्रमांक	पिकाचा प्रकार	पिकाचे नाव	जल सिंचित	अजल सिंचित	जल सिंचनाचे साधन	स्वरूप	क्षेत्र	
(१)	(२)	(३)	(४)	(५)	(६)	(७)	(८)	(९)	(१०)	(११)
					आर. सी.मी.	आर. सी.मी.			आर. सी.मी.	
2019-20	खरीप		निभळ	कुल	2.0000					
			निभळ	भाजीपाला	2.0000					
			मिठ	हरभरा	1.0000					
			मिठ	कडवळ	0.8500					
			मिठ	भुईमूग	0.6100					
						0.0		विहीरपड	0.1000	
						0.0		पड	3.0000	
						0.0		इमारत वड	6.7500	

टीप :- सदरची नोंद मोबाइल वीथ द्वारे घेवत आलेली आहे

"या प्रमाणित प्रतीसाठी की म्हणून १५० रुपये मिळाले."

दिनांक :- 22/05/2023

सांकेतिक क्रमांक :- 272500070312250000520231668

(नाव :- मांजरी बु. (556232))
तालुका :- हवेली जिल्हा :- पुणे

मांजरी बु. (556232)

हवेली, जि. पुणे

<https://mahafararpune.enlightcloud.com/DDM/PgHtml712>

5/22/2023

वर्ष: 2022-23		गाव नमुना आठ-अ धारण जमिनीची नोंदवही (कृषिक) (आसामीवार खतावणी - जमाबंदी पत्रक)				5/22/2023		
गाव: मांजरी बु.		तालुका: हवेली				जिल्हा: पुणे		
गाव नमुना सहा मधील नोंद	भूमापन क्रमांक व उपविभाग क्रमांक	क्षेत्र		वसुलीसाठी		एकूण		
		लागवडी योग्य पोटखराब क्षेत्र क्षेत्र	एकूण क्षेत्र	आकारणी किंवा जुडी	दुमाला जमिनीवरील नुकसान.	स्थानिक उपकर	जि.प. ग्रा. प.	
		(हे.आर.चौ.मी)	(हे.आर.चौ.मी)	(हे.आर.चौ.मी)				
(१)	(२)	(३अ)	(३ब)	(३क)	(४)	(५)	(६अ) (६ब)	(७)
खाते भारतीय कृषी अनुसंधान संस्थान.								
क्रमांक 1896								
सरकार 33/1		0.0000	13.45.00	13.45.00	0	0	0 0	0
61/62/178/179		0.0000	2.00.00	2.00.00	0	0	0 0	0
एकूण		0.0000	15.45.00	15.45.00	0	0	0 0	0

"या प्रमाणित प्रतीसाठी फी म्हणून ₹५/- रुपये मिळाले."
दिनांक :- 22/05/2023
सांकेतिक क्रमांक :- 272500070312250000520232669

(नाव :- योगेश्वर रवि शंकर कानडे)
वलाटी साक्षात् मांजरी बु.गा. - हवेली जि.पुणे
ता.हवेली, जि.पुणे

<https://mahaferfarpune.enlightcloud.com/DDM/Report8a>

5/22/2023

Land Records as extracted and shared for NRC – Grapes.

Annexures 8: Land Records for CITH – Mukteshwar

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PUBLIC. This information is being disclosed to the public in accordance with ADB's Access to Information Policy.

[illegible]

ICAB-Central Institute of Temperate Horticulture RS, Mukteshwar

12 Ownership description as per revenue record

1. Whether land is freehold/leasehold/Transferred/Gifted (The ownership of the land being acquired as transferred lease starts with the State/Department which is transferring the land) Leasehold

2. Lease amount (in Rs.) 99

3. Whether title is clear in favour of ICAB or not Yes

4. Date of Possession as per revenue record 03/01/1994

5. Date of acquisition 03/01/1994

6. Whether free from encroachments/litigation Yes

13 In case of leasehold Land

1. Lease Land area (in acres)

2. Name of the Department/Organization which has leased land to the institute IVRI, Trasnagar

3. Lease period (in years) 99 YEARS

4. Date of start of lease 03/01/1994

5. Date of renewal of lease none till 2033

6. Status of present lease IN FORCE

7. Reason for not renewal of lease at time N/A

8. In case, the state Govt. is seeking return of land from the institute prematurely even when the lease period is not over, may also be indicated. N/A

9. A brief note about status of proposal submitted to State Govt. for renewal and response of State Govt. N/A

10. Attached Document Choose File No file chosen
upload file to show document

14 In case of Transferred Land

1. Transferred area (in acres)

2. Name of the Institute/Department/Organization which has transferred the land to the institute IVRI, Trasnagar

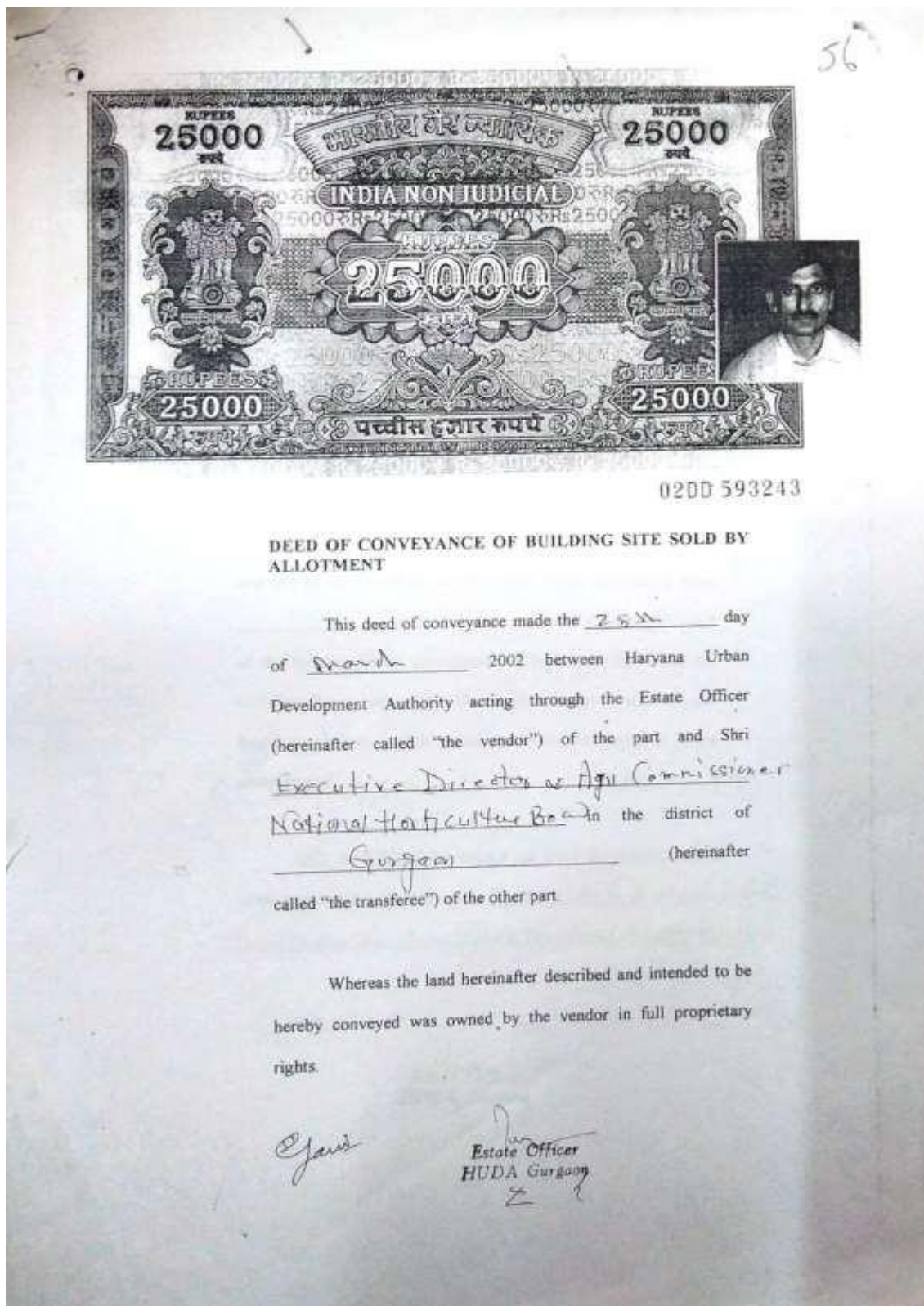
3. Date of Transfer of land 03/01/1994

4. Period for which land has been transferred (in years)

5. Attached Document Choose File No file chosen
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Land records for CITH – Mukteshwar

Annexures 9: Land Records for National Horticulture Board (NHB)





02DD 593244

AND WHEREAS the vendor has sanctioned the sale of the said site to the Transferee in pursuance of his application dated _____ made under sub regulation (1) of regulation 5 of the Haryana Urban Development (Disposal of Land and the Building) Regulations - 1978 (hereinafter - referred to as the said Regulations) to be used as a sited for Commercial purpose in the urban area of _____

AND WHEREAS the vendor has fixed the tentative price of the land sold by allotment at Rs. 21,86,203/- (the thirty one lac twenty six thousand three hundred three only)

Ofair

[Signature]
Estate Officer
HUDA Gurgaon
[Signature]



0200 593245

NOW THEREFORE, this deed witnesseth that for the purpose of carrying into effect the said sale and in consideration of the covenants of the Transferee herein after contained and the said sum of Rs. 31,26,303/- thirty one lac twenty six thousand three hundred three only said by the Transferee and the undertaking of the transferee to pay the additional price, if any, determined to be paid by the Transferee, within a period of the thirty days of the date of demand made in this behalf by the Estate Officer, without interest or in such of instalments with interest as may be determined by the Chief Administrator, the vendor hereby grants and conveys into the Transferee all the pieces and parcel of site No. Plot 85 Sector 18 area in square meters 51.0 Ache. Sq. Yds. and more particularly described in

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Estate Officer
HUDA Gurgaon
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0200 593246

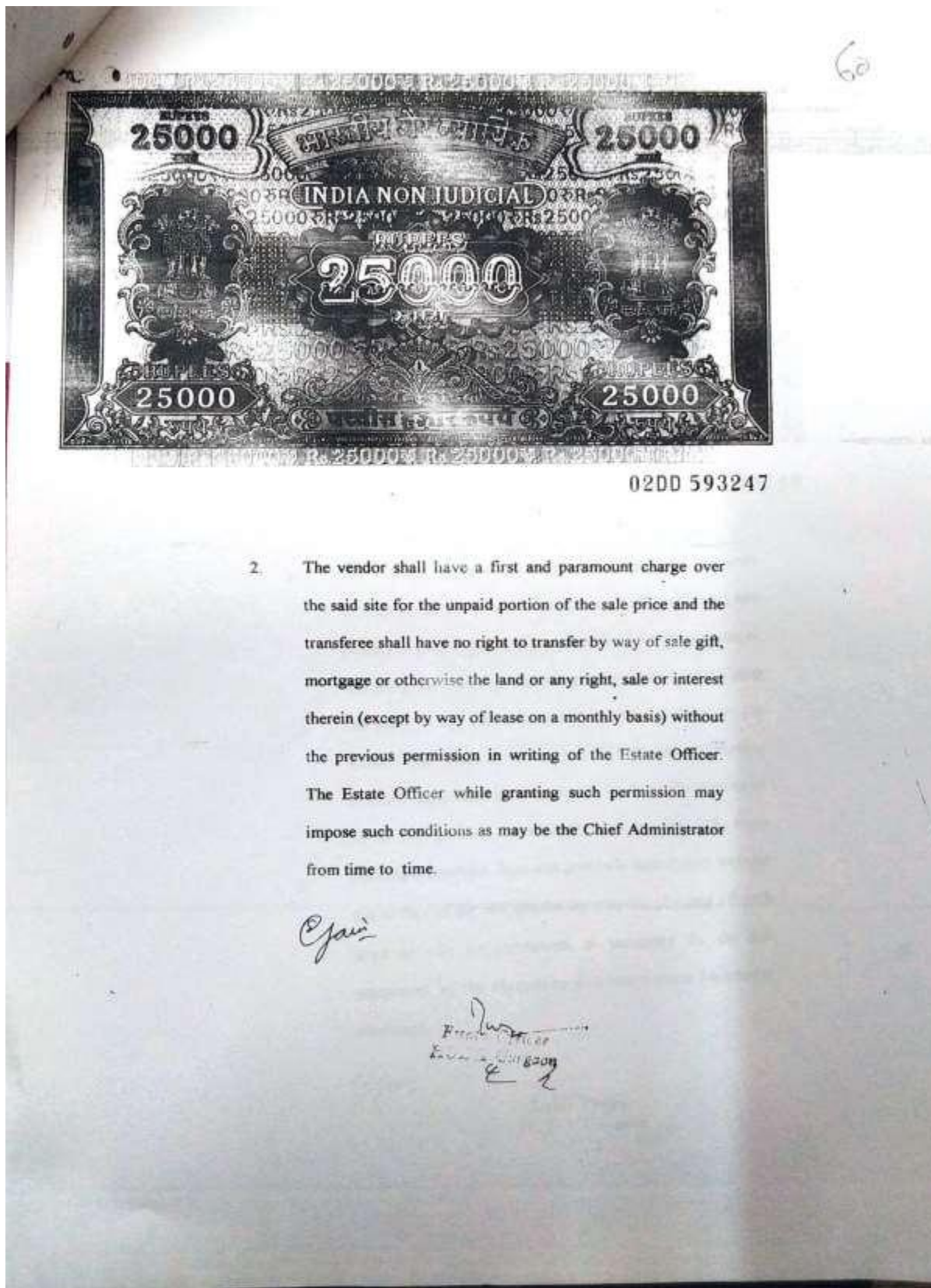
the plan filled in the office of the Estate Officer and signed by the
Estate Officer aforesaid and dated the _____
day of _____ 2002 (hereinafter called the said
site

To have and to hold the same upto and to the use of the
Transferee subject to exceptions, reservation, conditions and
covenants hereinafter contained and each of them that is to say

1. The transferee shall have the right of possession and
enjoyment so long and he pays the additional price, if any,
determined by the vendor within a period of fixed as
aforesaid and otherwise conforms to the terms and
conditions of sale.

Signature

Signature
Estate Officer
H.D. Gurgaon



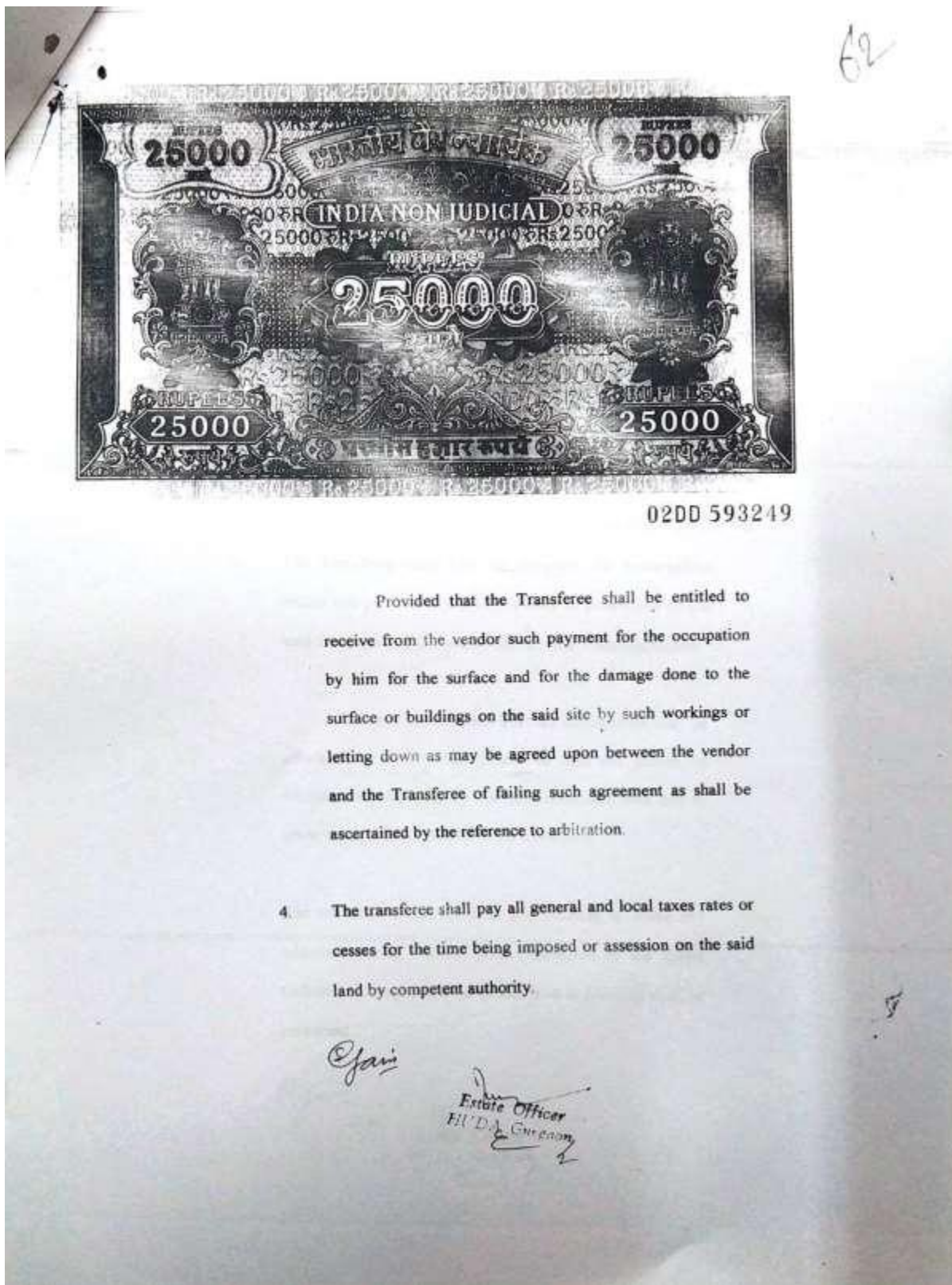


02DD 593248

3. The vendor reserves himself all mines and minerals whatsoever in or under the said site with all such rights and powers as may be necessary or expedient for the purpose of searching for working, obtaining, removing and 4enjoying the same at all such times and in such manner as the Vendor shall think fit with power to carry out any surface or any underground working and to let down the surface of all or any part of the said site and to sink pits, erect buildings, construct lines and generally appropriate and use the surface of the said site for the purpose of doing all such tings as may be convenient or necessary for the full enjoyment of the exceptions and reservations hereinafter contained.

Signature

Signature
Estate Officer
HUDA Gurgaon





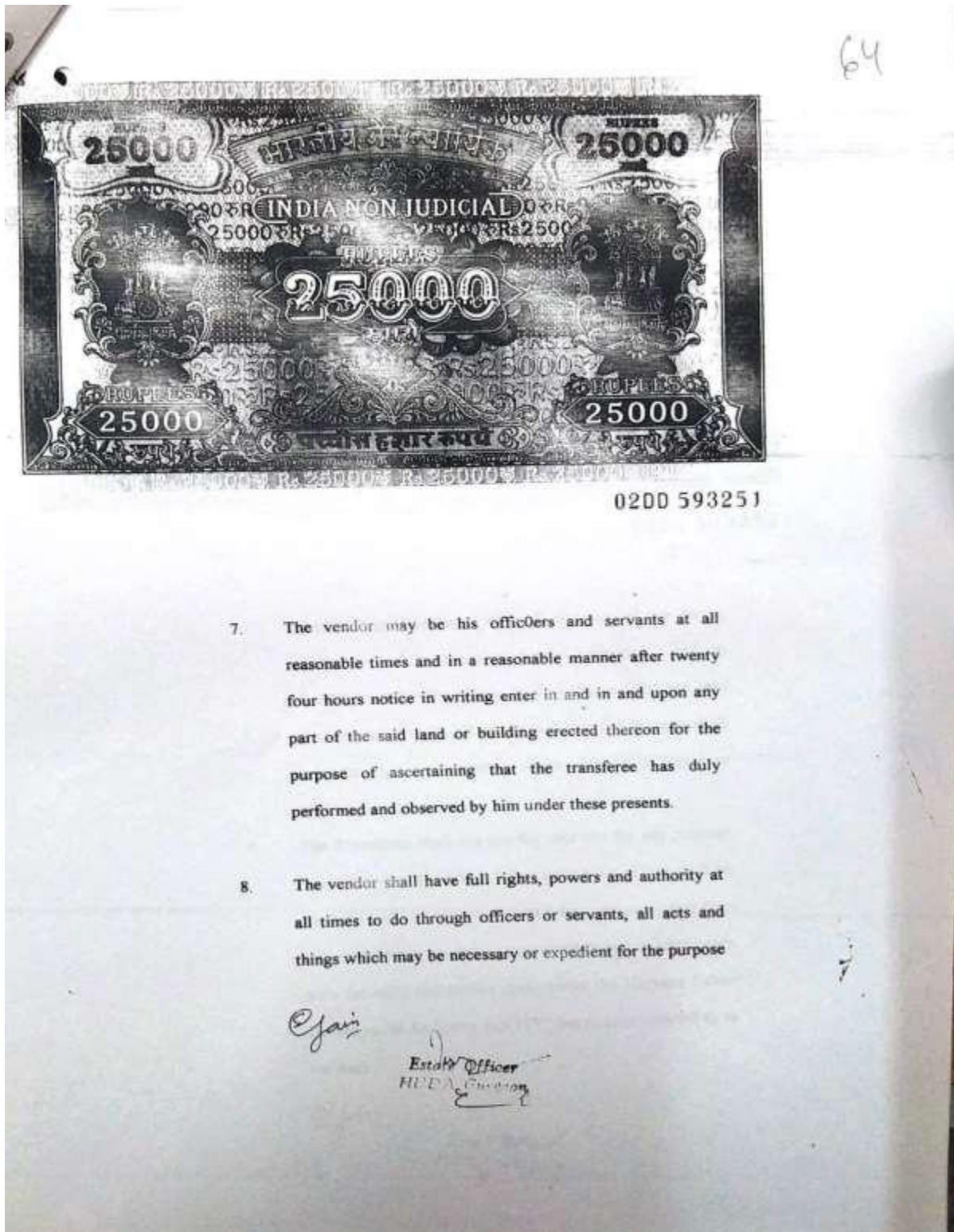
02DD 593250

5. The Transferee shall have to complete the construction within two years from the date of offer or possession on the said land, in accordance with the relevant rules/regulations.

Provided that the time limit for construction may be extended by the Estate Officer in case the failure to complete the building by the stipulated date was due to reasons beyond the control of the transferee.

6. The transferee shall not erect any building or make any addition altering without prior permission of the Estate Officer. No fragmentation of any land or building shall be permitted.

Estate Officer
HUDA Gurgaon





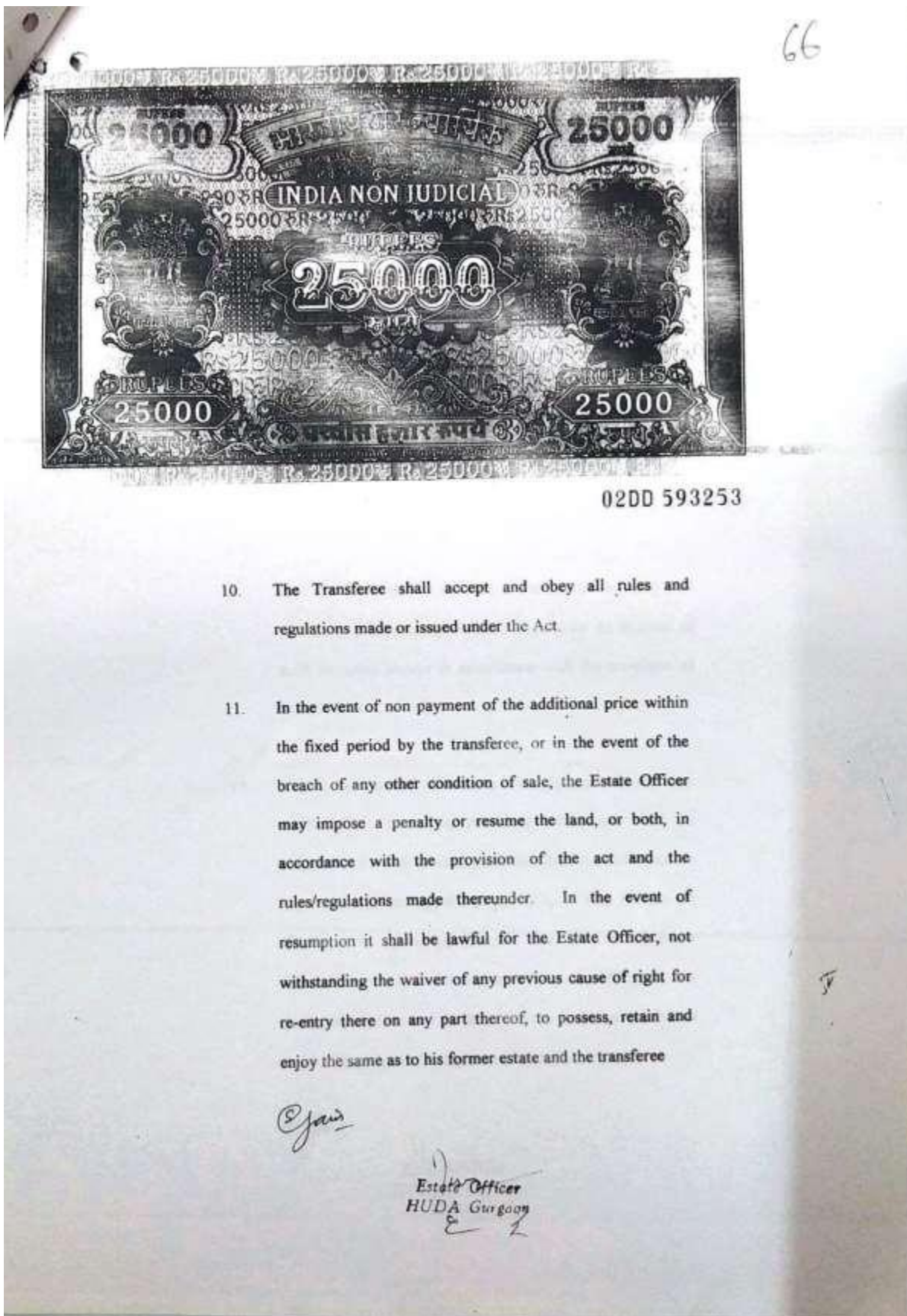
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of enforcing compliance with all or any of the terms, conditions and reservations herein contained and to recover from the Transferee as first charge upon the said site, the cost of doing all or any such acts and things and all costs incurred in connection there with or in any way relating thereto.

9. The Transferee shall not use the said site for any purpose other than that for which it has been allotted not shall be used the building constructed on it for a purpose other than that for which it has been constructed except in accordance with the rules regulations made under the Haryana Urban Development Authority Act 1977 (hereinafter referred to as the Act).

C Jain

For [Signature]
 HUDA Gurgaon





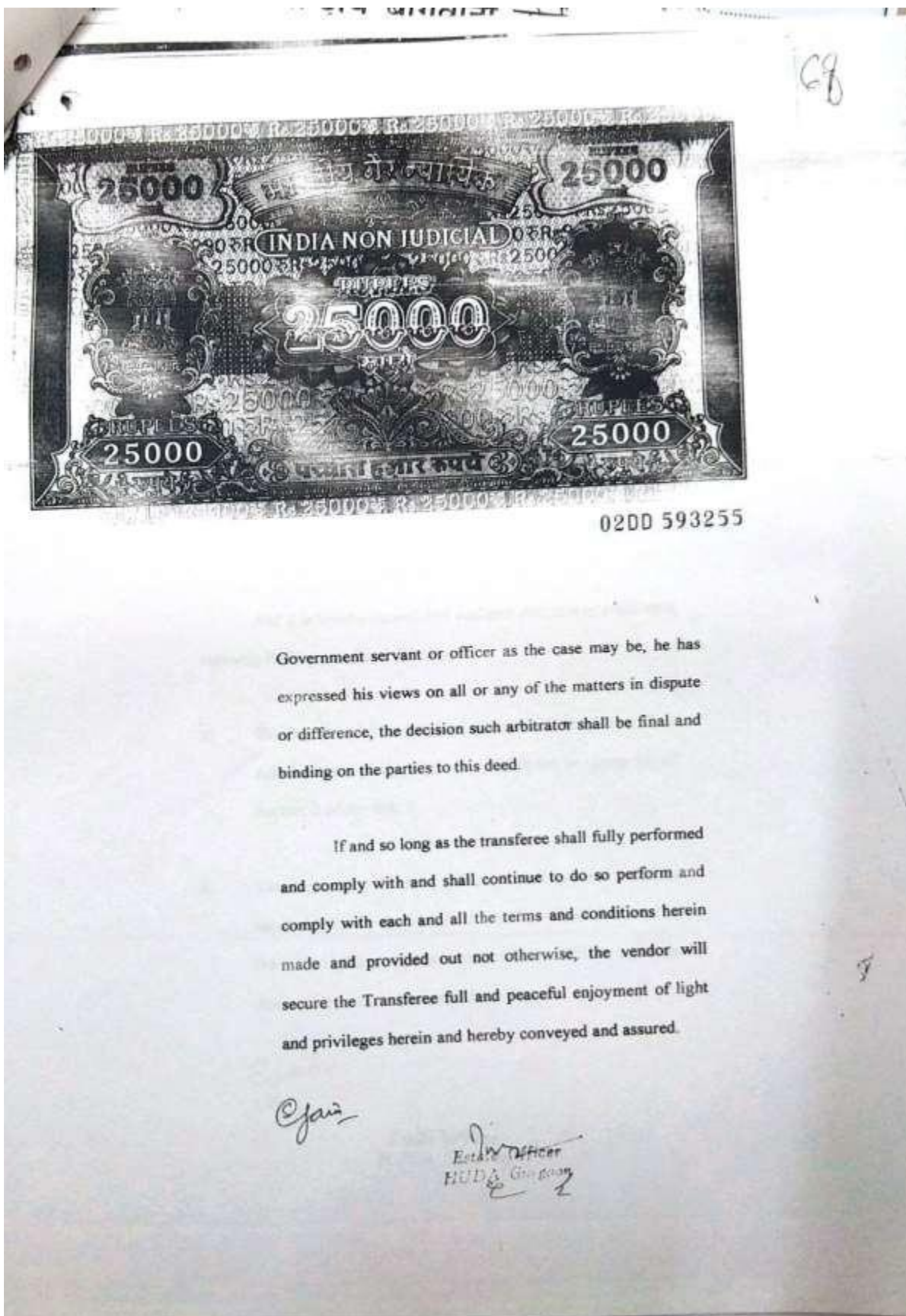
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shall not be entitled to a refund or the sale price or any part thereof or to any compensation whatsoever on account of such re-entry except in accordance with the provision of the said Act.

12. All the disputes and differences arising out of or in any way touching or concerning this deed whatsoever shall be referred to the sole arbitration of the Chief Administrator or any other officer appointed by him, it will not be an objection to such appointment that the arbitrator so appointed in a Government servant or an officer of the Authority that he had to deal with the matter to which this deed relates that in the course of his duties as such

C. Jain

[Signature]
Estate Officer
HUDA Gurgaon





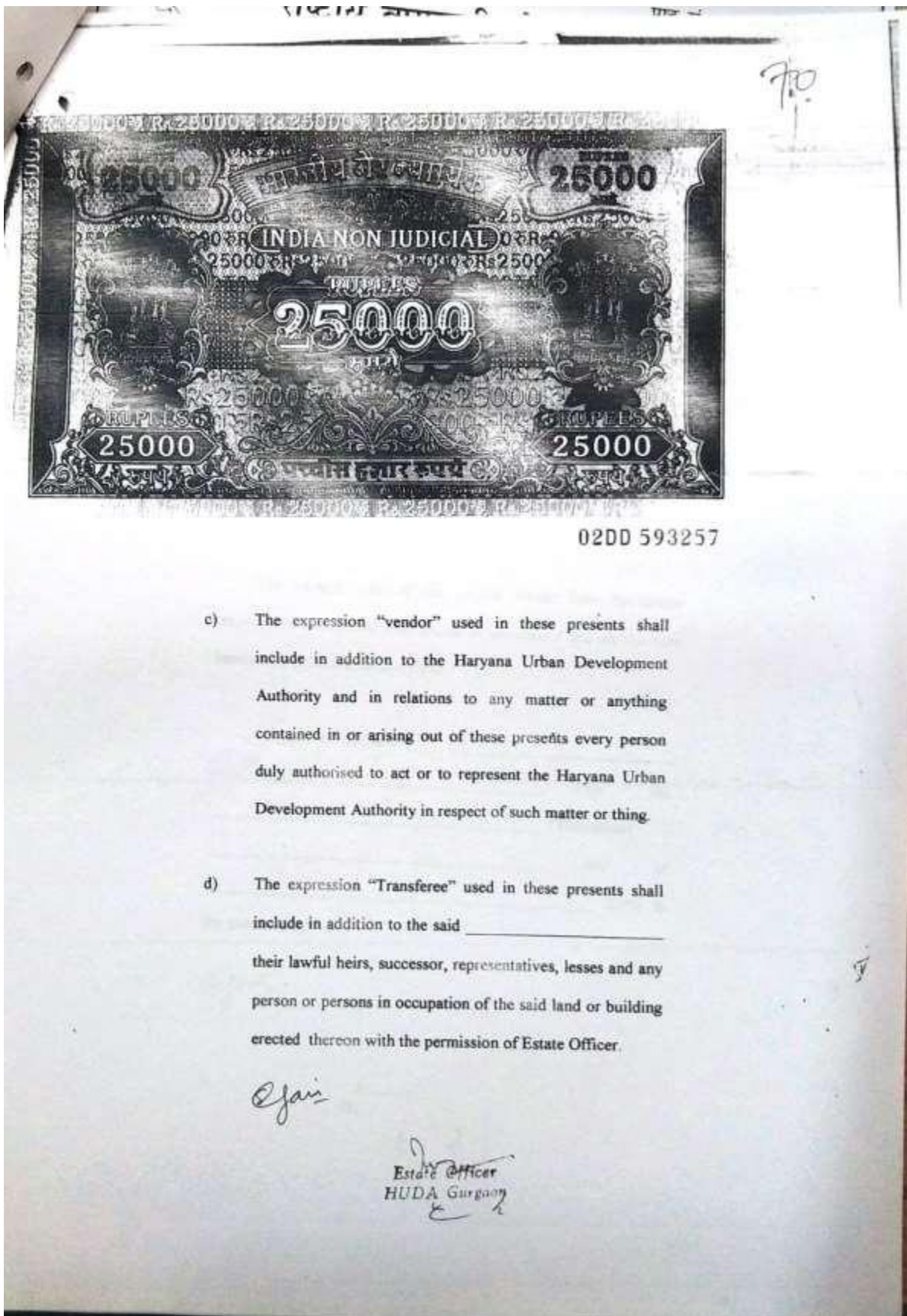
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And it is hereby agreed and declared that unless a different meaning shall appear from the context :

- a) The expression Chief Administrator shall means the Chief Administrator of the Authority as defined in clause (e) of Section 2 of the Act.
- b) The expression "Estate Officer" shall means a person appointed by the Authority under clause (d) of Section 2 of the Act to perform the functions of Estate Officer under the Act in one or more than one Urban Area.

Ejain

Estate Officer
HUDA Gurgaon
E



5000Rs.

INDIA NON JUDICIAL

५०००रु.

भारत

पाँच हजार रुपये FIVE THOUSAND RUPEES

Witnesses:

- Name B. R. Mehta (one of these witnesses must be a magistrate with his court if the deed not executed Before EO, HUDA, Gurgaon.)

Residence Seatri Office

Occupation Service

[Signature]
Signature
- Name S. C. Panwar

Residence A. D. N. H. B. Gurgaon

Occupation Service

[Signature]
Signature

[Signature]

Estate Officer
HUDA Gurgaon

Annexures 10: Site Visit and Consultations – CITH –Mukteshwar

Site Visit Team	Dr. M Krishna Reddy, Ashok Suyal
Mission Destination	• ICAR-CITH, Mukteshwar, Uttarakhand
IACR-CITH Visit Key Observations/Findings	• There are 10 water storage tanks for watering the plants. 7 nos. are already completed & in use and for the remaining 3 nos., area is already designated. • 4 nos. PEQ platforms were constructed for one the project which will be now probably used for CPP project. • Poly houses are there for walnuts and other fruit plants. • 09 nos. guards (3 working in 3 shifts) are deputed at the field during the day n night and work in shifts to protect the plantation mainly from wild animals. Being regional center with limited budget the challenges which CITH is facing are: • Timely Weather Data • Electrification and the Back-up for Electricity (though an existing line for IMD radar exists in vicinity) • Water Management (Manage perennial sources of natural spring water within the campus) • Irrigation management along with the staff (natural water springs & check dam are few options available and can be utilized). With regards to CPP project, our team explained all relevant questions and updated briefly about the readiness and expectations & suggested to start working on the preliminary steps and to maintain the documentation and compliances as required from time to time. With regards of Gender Assessment: • There are no female contract workers or temporary staff. • No female working staff for the various activities in the CITH Campus. • 2 nos. Female Scientists and 1 Male scientist are posted at CITH. This is the total approved headcount of Three for the regional station. • There is no complaint/grievance register in the office. We suggested to maintain a register on a regular basis. • Important notices in regard of the work and staff recruitment are missing and should be placed at the Notice Board. • Salaries of the staff and contractual workers including Guards & Farm workers are paid timely and record of the same are maintained properly every month. • We received copy of land records & transfer documents from CITH (attached as annexure). Attendees Dr. Krishna Reddy Mr. Ashok Suyal Ms. Meenakshi Tiwari, NHB CITH Officials Dr. Arun Kishore, Sr. Scientist Horticulture Fruit Science Mr. Diwan Chandra, Assistant Administrative Officer
Other Visits	1. The Organic Village Resort Visit The Resort owners are practicing natural and organic farming techniques including desi cows' organic manure and zero

	chemicals to get the best results in the farms. Resort's land where High Density Apples are planted in Poly Houses. Spread in a vast area (approx. 4-5 Ha.) it's surrounded with apple, peaches, plums, pears, apricot, walnut, local berries and various vegetables plantation. The landowner is interested in expanding his business and set up processing unit within vicinity. We could only speak with him over phone as he is travelling and not available at the location. 2. Nursery Visit: Neema Udyan Paudhalaya, Village – Khujeta Nursery Owner: Mr. Devendra Singh Visited Neema Udyan Paudhalaya on 18th August 2023, a privately owned large nursery of Mukteshwar area. The nursery is spread across 3 hectares of land. There are variety of plants like: Fruits • High Density Apples • Walnut • Peach • Lime and lemon • Blueberry • Kiwi • Chestnut Veggies & Other Plants • Brinjal • Capsicum • Taro (arbi) • Green Chilli • Tomatoes • Sugarcane • Forest Trees, Ornamental plants & Trees The owner of the nursery hires migratory workers mostly from Nepal who have developed expertise in various horticultural activities over the year. Most of the workers are paid monthly and no records or processes exist as of now. It was noted that no employment records exist for the workers. No female workers are employed in the facility. Owner has shown interest in getting compliant and getting the necessary organization structure and processes/policies in place over next few months. Site visit team explained about the CPP project and suggested him to start working as per the guidelines of the Project and update the organizational structure accordingly. Attendees Dr. Krishna Reddy Mr. Ashok Suyal Dr. Arun Kishore, Sr. Scientist Horticulture Fruit Science Mr. Devender Singh
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Figure 1 – Site Visit – Neema Paudhalaya



Figure 2 Consultation with Owner of the Nursery



Figure 3 Field walk thru – CITH Mukteshwar



Figure 4 Consultations with locals in CITH office

Site Visit & Consultation Pictures – CITH Mukteshwar

Annexures 11: Site Visit and Consultations – NRC – Pomegranate (Solapur)

Site Visit Team	Ashok Suyal
Mission Destination	• ICAR-NRC on Pomegranate, Solapur
NRC-P Visit Key Observations/Findings	• The Research Centre is located at Kegaon near Solapur University, Pune-Hyderabad National Highway-9, about 12 km away from Solapur city. • There are a total 4 major water ponds (naturally fed via rainwater for watering the plants. In addition, NRC-P has an arrangement via govt. provided water connection from nearby MIDC to receive water to refill one of the ponds as may be required especially during summer times. • Poly houses and shade nets are frequently used for mother block and disease screening & further research. • The NRC-P facility shares a boundary with reserved forest and with police training academy. The boundary is clearly marked with plant hedges and boundary wall as required. wild boars Deer's, Rabbit are the main fauna found in the area. • 12 nos. guards (3 working in 3 shifts) + 1 supervisor per shift are deputed at the field during the day n night and work in shifts to protect the plantation mainly from wild animals. Director, Dr. Rajiv A Marathe, has been involved with CPP program and his team is well aware of CPP project and expectations. With regards of Gender Assessment: • There are approximately 60% female contract workers / temporary staff at any given point of time. • Total 22 headcounts are approved for the centre out of which 5 Female Scientists and 09 Male scientists are posted at NRC-P. 8 positions are vacant and necessary due diligence is underway to fill them at the earliest. • There is no complaint/grievance register in the office or with security at main gate. Suggested that NRC-P maintain a register on a regular basis. • Salaries of the staff and contractual workers including Guards & Farm workers are paid timely and records of the same are maintained properly every month. Attendees: Mr. Ashok Suyal NRC-P Officials: Dr. Rajiv A Marathe Dr. Manjunath N Dr. Somnath Pakhure Dr. Avchare Dr. Nilesh Kaikawad Dr. Jyotsna Sharma
Other Visits	Nursery Visit: Mohite Farm Nursary, Village – Kati Nursery Owner: Mr. Sahebrao Mohite Visited Mohite Farm Nursary on 28th August 2023, a privately owned large nursery at village Kati, near Indapur. The nursery is spread across 25 hectares of land. There are variety of fruit plants like: • Pomegranate • Guava • Mango The owner of the nursery hires migratory workers from other districts who engage as daily wage labourers. Most of the workers are paid weekly in cash though no

	formal records or processes exist as of now. It was noted that no employment records exist for the workers. 25% female farm labors are also part of the Nursery and are mostly engaged in filling of soil in bags/pots, clearing weeds & other such farm activities. Male labors are engaged in skilled work like cutting/grafting, watering, Spray of insecticides etc. The owner has shown interest in getting compliant and getting the necessary organization structure and processes/policies in place over the next few months. Site visit team explained about the CPP project and suggested that he start working as per the guidelines of the Project and update the organizational structure accordingly. Mr. Sahebrao (owner) feels that the clean plant program will address 50% of farmers issues within first few months itself. He also suggested that continuous multi way communication between CPC, Nurseries & farmers as a way to build robust mechanism. Attendees Mr. Ashok Suyal Nursary Owner family Sahebrao Namdev Mohite Amit Sahebrao Mohite Mjusha Sahebrao Mohite Renuka Amit Mohite Ajay Sahebrao Mohite Sawati Ajay Mohite
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Site Visit & Consultation Pictures – NRC Pomegranate – Solapur



Figure 5 Mohita Farms - A private Nursery that specialises in Pomegranate & Guava



Figure 6 Plant grafting process at Mohite Farm



Figure 7 Sapling of Pomegranate at the Nursery



Figure 8 Develped Mother Block at the Nursery



Figure 9 Another picture of Mother Block with grafts visible.



Figure 10 Mohite Family (Owner and his Brother)



Consultation with team of scientists at NRC-P



Shortlisted site for CPC at NRC P



CPP Social Checklist – NRC - Pomegranates

Social & Gender Screening checklist as confirmed by NRCP validated by the NRCP Director's Office

S. No.	Query	Comments/Answers
1	Total Land Area of the institution and proposed area to be allocated for CPC.	• Total Land Area of the institute (ICAR-NRCP): 143 acres • Proposed area to be allocated for CPC: 25 acres
2	Ownership of Land	• Lease land of 99 years from Govt. of Maharashtra.
3	Total number of scientist & office staff	• Sanction scientific strength: 22+ 1(RMP) • Scientist in Position: 14 (9 M & 5 F) • Office staff: • Technical, Administrative & Support staff: 12 (12 M) • Project staff (YPs, JRF/SRFs and Technical assistants): 16 (10 M & 6 F)
4	% of Male/Female staff (numbers will do)	Total: 42 (31 M & 11 F)
5	No. of outsourced/contractual workers including security staff. Also, please provide % of Male & female workers	• Contractual field workers: 42 (18 M & 24 F) • Contractual office workers: 28 (18 M + 10 F) • Security staff: 15 (15 M)
6	Female workers in farm/fields (%)	57%
7	No. of vulnerable/differently abled employed (%)	1
9	Confirm that all required statutory labour laws are being followed as per Government regulations	• All labour laws are strictly followed as per Government regulations
10	Please confirm the present grievance redressal mechanism.	• For grievance redressal mechanism we have a nominated Vigilance office, RTI officers and Grievance cell for women
11	Applicability of said grievance redressal mechanism	• Person having grievance can directly approach the concern committee.
12	Any provisions/schemes to promote more women participation in workforce	Nil
13	Number of outreach/training/extension programs organized annually by NRC for the farmers	• Around 30 outreach programs organised by NRCP in 2022 includes field days, visits, training, exhibitions, interaction meeting etc.
14	Average participation of women farmers in such programs.	• Around 25-30%
15	Will associated nurseries require temporary or permanent support facilities? If yes what type/Kind	• We have our nursery at ICAR-NRCP. We have licenced our technologies to private nurseries. • They take certification from State Agriculture department or NHB. • They are not directly associated with us.
16	Does the project include measures to ensure a safe and healthy working environment for female workers employed as part of the project?	Yes
17	Does the project incorporate measures to allow affected stakeholders' information and consultation?	NA

18	Please provide details of NHB/State accredited private nurseries that your institution works/deals with.	• We are not directly involved in the nursery accreditation. • While giving the technology licencing to the concern firm, we ensure that the firm has nursery certificate from either of State Agriculture department or NHB.
19	Any ideas/suggestions that would help CPC bring in best practices in Human resources & overall social development	• There should be a course (~3 days' duration) for the nursery persons by devised by CPP. • The course for nursery management/ clean plant production at CPP centre should be mandatory for all the nurseries. • CPP should be authorised to inspect the nurseries at any time and can cancel or recommend to cancel the license of the concerned firm upon violating SOPs or found diseased material during inspection.

Annexures 12: Site Visit and Consultations – NRC – Grapes (Pune)

Site Visit Team	Ms. Rayhaldo D Susulan – 07th August Mr. Ashok Suyal – 29th August
Mission Destination	● ICAR-NRC for Grapes, Pune
NRC-G Visit Key Observations/Findings	● The actual land measuring 46.78 ha was leased to ICAR-NRC Grapes on 29 January 1998. ● There are a total 2 major water storage ponds acting as rainwater harvesting units (man-made) for watering the plants. In addition, NRC-G has an arrangement via govt. provided water connection from Canal where the gravity-based pipeline is laid to receive water for the ponds as may be required especially during summer times. There are also four natural wells from where water is lifted as per the need of the facility. ● Poly houses and shade nets are frequently used for mother block and disease screening activities. ● The NRC-G facility is an urban setup with one of the busiest national highways (Pune-Solapur) traversing through the campus and human settlement nearby the boundary of the institute. The boundary is clearly marked with concrete wall to avoid domestic animals entering the campus. ● 14 guards (including supervisors) deputed at the facility work in shifts, are responsible for overall security of the facility including nursery section of the vast campus from unwanted intruders & stray animals. Director, Dr. Kaushik Banerjee has been involved with the CPP program and his team is well aware of CPP project and expectations. With regards of Gender Assessment: ● There are approximately 33% female contract workers / temporary staff at any given point of time. ● Farm laborer, female participation is approx. 45% ● Total 34 headcounts are approved for the center out of which 6 Female staff (17%) and 28 Male staff are posted at NRC-G. ● There is no complaint/grievance register in the office or with security at the main gate. Suggested that NRC-G maintain a register on a regular basis. ● The salaries of the staff and contractual workers including Guards & Farm workers are paid timely and records of the same are maintained properly every month. Attendees Mr. Ashok Suyal NRC-G Officials Dr. Somnath K Holkar Dr. Prashant H Nikumbhe Dr. Dr. Nishant A Deshmukh Pune visit 7th of August. Attendees: Dr. Kaushik Banerjee, Director, ICAR-NRCG (on line)

	Dr. Sujoy Saha, Pr. Scientist (Plant Pathology) Dr. S.K. Holkar, Sr. Scientist (Plant Pathology) Dr. P.H. Nikumbhe, Scientist (Fruit Science) Dr. Sharmistha Naik, Scientist (Fruit Science) Mr. P.C. Noble, Administrative Officer Mr. N.S. Pathan, Assistant Administrative Officer Mr. M.N. Ganti, Finance and Accounts Officer.
Other Visits	No Private Nursery visits could be undertaken during this trip.



With The team of Scientist



Research Block and possible site for CPC

	
Water harvesting storage tank	Nursery and mother Block

CPP_Social Checklist – NRC -Grapes

Social & Gender Screening checklist as confirmed by NRC-G validated by the NRC-G directors.

S. No	Query	Comments/Answers
1	Total Land Area of the institution and proposed area to be allocated for CPC.	Total Area: 46.78 ha (116.95 acre) 10-12 ha (25-30 acre)
2	Ownership of Land	Indian Council of Agricultural Research (ICAR), New Delhi
3	Total number of scientist & office staff	34
4	% of Male/Female staff (numbers will do)	28 Male; 6 Female
5	No. of outsourced/contractual workers including security staff. Also, please provide % of Male & female workers.	73 + 14 = 87 (including security) Male: 53 (61%) Female: 33 (38%) Persons with Disabilities: 01 (1%)
6	Female workers in farm/fields (%).	45.21%
7	No. of vulnerable/differently abled employed (%).	2.0%
9	Confirm that all required statutory labour laws are being followed as per Government regulations.	Yes
10	Please confirm the present grievance redressal mechanism.	As per the provisions of RTI, 2005 act, ICAR-NRCG, Pune has deputed public authorities including Grievance Redressal Officers for Persons with Disabilities
11	Applicability of said grievance redressal mechanism	As Per RTI, 2005 Act.
12	Any provisions/schemes to promote more women participation in workforce	Women Participation is encouraged in all the project positions including Young Professional-I and II, Junior Research Fellows (JRFs), Senior Research Fellows (SRFs), Research Associates (RAs) Total: 42 project workers Male: 16 (38%) Female: 26 (62%)
13	Number of outreach/training/extension programmes organised annually by NRC for the farmers	13 (2022); Reference: ICAR-NRCG, Pune Annual Report - 2022
14	Average participation of women farmers in such programmes.	15-20%
15	Will associated nurseries require temporary or permanent support facilities? If yes what type/Kind	Permanent support: for establishment of the nursery. Temporary: Accreditation based on NHB, Guidelines.
16	Does the project include measures to ensure a safe and healthy working environment for female workers employed as part of the project?	Yes, Dr. Sharmistha Naik, Scientist (Fruit Science) is one of female employees of this Institute engaged in one of the major activities of this project.
17	Does the project incorporate measures to allow affected stakeholders' information and consultation?	Yes, the project will allow consultation and time-to-time information dissemination to the affected stakeholders and provisions will be made thereof.
18	Please provide details of NHB/State accredited private nurseries that your institution	Presently none of the grape nurseries are accredited by the NHB except the nursery of

	works/deals with.	ICAR-NRCG. However, some well-equipped private nurseries are dedicated to the supply of mother and batches of grapevine planting material and are in the process of accreditation.
19	Any ideas/suggestions that would help CPC bring in best practices in Human resources & overall social development	National and/or international training is required to understand the state-of-the-art facilities and overall functioning of the already existing CPCs worldwide or standard molecular biology and tissue culture laboratories, High-Tech nurseries to all the scientists and stakeholders involved in development of disease-free quality planting material of the grapes. The project has a vision of reducing chemical inputs which will safeguard the environment and human health. Moreover, the nurseries and testing labs will increase employment opportunities and economic sustenance.

Annexures 13: Site Visit and Consultations in CCRI Nagpur

Site Visit Team	Ashok Suyal
Mission Destination	● ICAR-CCRI, Nagpur National Research Centre for Citrus (NRCC), Nagpur started its journey from April, 1986, the process of its birth had already begun in July 28, 1985. Initially Centre started functioning from part of the building of rabbit breeding Centre of the Veterinary College at Seminary Hills, Nagpur which was under Dr. Panjabrao Deshmukh Krishi Vidyapeeth (Dr. PDKV), Akola. Initially, Pathology, Entomology, Horticulture and Post-harvest Technology laboratories were established. During 2014, the NRCC was upgraded to the level of Central Institute and renamed as ICAR-Central Citrus Research Institute. ICAR-CCRI opened its first Regional Research Centre for Citrus (RRCC) at Biswanath Chariali, Assam in March 2017.
CCRI Visit key Observations/Findings	● The Institute is on Amravati Road on a stretch where few other institutes/Research Centre of eminence are located. ● 2 large ponds, (naturally fed via rainwater are used throughout the year for irrigation purposes. In addition CCRI draws water via approved pipeline from nearby Ambazari lake during summer times. ● The CCRI facility is protected by concrete boundary wall and no visible encroachments are observed. ● 16 nos. guards (5 working in 3 shifts) + 1 supervisor per shift are deputed at the field during the day n night and work in shifts to protect the plantation mainly from unwanted intruders & stray animals. ● CCRI products are in good demand and farmers apply in advance for the crops to be procured from the institute's nursery said the supervisor Sh. Bipin M Mahale and assistant Sh. Kailash Ghaiwat. As per them the demand is very high and farmers apply in advance for the plants. Director, Dr. Dilip Ghosh has been involved with CPP program and his team is aware of CPP project and expectations. With regards of Gender Assessment: ● There are approximately 20%% female contract workers / temporary staff at any given point of time. ● Total 16 Scientists are working in various departments, of which 3 female Scientists and 12 are male scientists. 3 scientists are on study leaves and the Institute is relying on YP's & contractual staff to fill the temporary gap. ● There is no complaint/grievance register in the office or with security at main gate. Suggested that CCRI maintain a register on a regular basis. ● Salaries of the staff and contractual workers including Guards & Farm workers are paid timely and records of the same are maintained properly every month. Attendees: Mr. Ashok Suyal CCRI Officials:

	Dr. Dilip Ghosh Dr. A K Das Dr. A Thirugnanavel Dr. Sangeeta Bhattacharyya Mr. Rakesh K Jatav
Other Visits	Nursery Visit: Shivam Nursery, Gitanagar, Nagpur Nursery Owner: Mr. Yogesh Bangade Visited Shivam Nursery on 13th September 2023, a privately owned nursery on the outskirts of Nagpur. The nursery is spread across 2 hectares of land. Primarily it has various available Citrus plants including, Oranges, Clementines, Sweet lime etc. The owner of the nursery has 4 permanent staff and hires migratory workers from other locations during peak season. Most of the workers are paid weekly in cash and no formal records or labor processes exist as of now. It was noted that no employment records exist for the workers. 20% female workers are working in the nursery and mostly engaged in filling of soil in bags/pots, clearing weeds & other such farm activities. Male workers are engaged in skilled work like cutting/grafting, watering, Spray of insecticides etc. Owner has shown interest in getting process compliant and getting the necessary organization structure and processes/policies in place over the next few months. Site visit team explained about the CPP project and suggested that he start working as per the guidelines of the Project and update the organizational structure accordingly. Mr. Yogesh mentioned that competition from non-affiliated nurseries in Katol & Narkhed villages selling plants at cheaper price is major threat as they don't follow any CCRI guidelines sell below standard products which hurts farmers in longer run. Mr. Yogesh feels that clean plant program will enhance CCRI's image and help affiliated nurseries to innovate further with farmers becoming ultimate beneficiaries of improved and disease-free plant varieties. He also suggested that continuous training and development sessions and exchange of knowledge will be good for CPC, nurseries & farmers. Attendees Mr. Ashok Suyal Nursery Owner Mr. Yogesh Bangade

Site Visit Photos – CCRI Nagpur



Figure – With CCRI Director & core team of Scientists



Figure – With Young professionals and research associates at pathology lab, CCRI



Figure – CCRI Nursery visit



Figure – CCRI Nursery visit (seedling section)



Figure – CCRI nursery with young plants



Figure – CCRI research nursery



Figure – Mother block plantation site at CCRI



Figure – Worker at mother plant block - CCRI



Figure – De-weeding and other activities at mother block plantation site at CCRI



Figure – Closing meeting with CCRI team

CPP Social Checklist – CCRI Nagpur

S. No.	Query	Comments/Answers
1	Total Land Area of the institution and proposed area to be allocated for CPC.	Total area of land = 100 ha Proposed area for CPC = 10 ha
2	Ownership of Land	Indian Council of Agricultural Research
3	Total number of scientist & office staff	Total No. of scientists = 16 Other office staffs = 54 (Admin, technical, finance, and other staffs)
4	% Of Male/Female staff (numbers will do)	Male: 83.33 % Female: 16.66 %
5	No. of outsourced/contractual workers including security staff. Also, please provide % of Male & female workers	204 contractual workers including security staffs and Project staffs (includes Young Professional 1, Young Professional 2, Junior Research Fellow, Senior Research Fellow, and Research Associate) Male : 84 % Female: 16 %
6	Female workers in farm/fields (%)	15 %
7	No. of vulnerable/differently abled employed (%)	One physical disabled person is working as Project staff (Young professional 1)
9	Confirm that all required statutory labour laws are being followed as per Government regulations	Yes, all the statutory labour laws are followed by ICAR-CCRI as per Government regulations
10	Please confirm the present grievance redressal mechanism.	ICAR-CCRI have women cell and grievance cell for addressing the grievances of the staffs
11	Applicability of said grievance redressal mechanism	The committees addressing the grievances raised by the staffs in fair and transparent manner
12	Any provisions/schemes to promote more women participation in workforce	Nil

13	Number of outreach/training/extension programmes organised annually by NRC for the farmers	On an average 15 to 20 training programmes are conducted for farmers annually by ICAR-CCRI 16 trainings were organized during 2022
14	Average participation of women farmers in such programmes.	15-20 %
15	Will associated nurseries require temporary or permanent support facilities? If yes what type/Kind	Yes, associated nurseries require temporary facilities for regular nursery activities
16	Does the project include measures to ensure a safe and healthy working environment for female workers employed as part of the project?	Yes, all employees and contractors
17	Does the project incorporate measures to allow affected stakeholders' information and consultation?	Yes
18	Please provide details of NHB/State accredited private nurseries that your institution works/deals with.	ICAR-CCRI has signed MoU with 11 private nurseries across the country and transferred the technology for the production of disease free planting materials of citrus. The details of the nurseries are attached.
19	Any ideas/suggestions that would help CPC bring in best practices in Human resources & overall social development	Awareness and capacity building programmes are required at all levels and stakeholders.

Annexures 14: List Private Nurseries

- 1) List of Nurseries as provided by NRC-Grapes**
2) List of Nurseries as provided by CITH – Mukteshwar

S.N.	Nursery Location	Contact details
1	Gawali Nurseries, Kasegaon, District: Solapur, Maharashtra	Mr. Sunil Gawali: Mob: 9890862153
2	Om Gayatri Nursery, Nashik, Maharashtra	Mr. Madhukar Gawali: Mob: 9850491565
3	Graftek Nursery, Nashik, Maharashtra	Mr. Avinash Patil Mob: 09922700039
4	Deshpande Nursery Vijapur, Karnataka	Mr. Hrishikesh Deshpande Mob: 9845402460
S.N.	Nursery Location	Contact Details
1	Nirmal Nursery, Village Dharmawala, Dehradun, Area 1.2 Ha.	Mr. Nirmal Singh, +919456502033, nirmalnursry333@gmail.com
2	Oberoi Nursery, Village Dudhai, Vikas Nagar, Dehradun, Area 4.5 Ha	Mr. Rakesh Oberoi, + 91-7505223251, rakeshoberoi@gmail.com
3	Narayani Nakshtra Paudhshala, Village- Pab Samyeni, District- Tehri Garhwal, 2 Ha	Mr. Kundan Singh, +91-9411313306, kundansinghpanwar1999@gmail.com
4	Neema Udyan Paudhalaya, Village Khujeti, District Nainital, 2 Ha	Mr. Devender Singh Chausali, +91-9411303537, devendrasinghchausali@gmail.com

3) List of Nurseries as provided by CCRI – Nagpur

S.N.	Name of the Nursery firm	Contact details
1.	M/s Sahyadri Farmers Producer Company LTD	Gat No.314, Mohadi Dindori Road, At Post Mohadi, Tal - Dindori, Dist – Nashik 422207 Email : vilas@sahyadrifarms.com
2.	M/s Jain Irrigation Systems Ltd.	Jain Plastic Park, P.O. Box 72, NH No. 6 Bambhori, Jalgaon - 425001., MS, India. Email : dr.dhake.anil@jains.com Phone : M: 9422775924
3.	M/s. Shivar Nursery	Mrs. Shital Prashant Wankhede Hatla, Taluka Katol, District Nagpur Email : pwankhede1975@gmail.com Phone : 9922193008, 9404951104
4.	M/s. Jai Hind Nursery	Sh. Anil Kumar VPO Seethal (Bhiwadi), Dist. Alwar – 301 018, Rajasthan, India Email : jaihind.nursery18@gmail.com M.No. : 9784430000, 9769430000
5.	M/s. Pratima Biotech Pvt. Ltd.	Sh. Abhishek Chawda Chawda Bagh, Nandanvan Road, Vill – Chandandih, Post Tatibandh, Raipur (CG) Email : chawdabagh@gmail.com M.No.: 7771035550
6.	M/s KJB Agro	Mr. Kenneth Jason Blades, 158/F Westbury Road, Ootacamund

		643001, The Nilgiris, Tamil Nadu E-mail : kjbagro@gmail.com M. No.: 9845372799
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Annexures XV– Site Visit Photos

**Figure 11 Visit to NRC - Grapes****Figure 12 Visit to NRC – Grapes**

7.	M/s. Green Valley	Mrs. Lalita Junghare, B-403, Greencity, Officers Society, Aakar Nagar, Nagpur – 13 Email : akhil@greenvalleylimited.com M.No.: 9822571304
8.	M/s. Shivam Nursery	Sh. Yogesh Bangade Gita Nagar, zingabaitakli, Nagpur 440030 Email :yogeshbangde992@gmail.com M.No.: 9890938192
9.	M/s. Seven Star Fruits Pvt. Ltd.	Sh. Anil Rajkarne Pimpalgaon, 19, Raj Mahal, 84, Veer Nariman Road, Churchagate, Mumbai – 400020 Fax: 022- 4028 7666 E-mail : infosevenstar@sevenstar.in M.No. 9960384444
10.	M/s. Karunamaya Agrotech	Sh. A.K. Chaurasia 107, Yashwant Stadium Complex, PO, Dhantoli, Nagpur 440012 (MS) E-mail:karunamayaagrotech@gmail.com M.No.: 9890193132, 9970394623
11.	M/s. H. U. Gugle Agrobiotech company	Sh. Ramesh Gugle Jamkhed - 413201, Dist. Ahmednagar (MS) Email: hugugle@gmail.com Ph. 02421-221766 M. No.: 9423163131



Figure 13 Visit to NRC - Grapes



Figure 14- Visit to CISH Lucknow



Figure 15 – Visit to NHB Office



Figure 16 – Visit to NHB Office



Figure 17 – Team visits to nursery in Bangalore



Figure 18 – FFM team at IIHR Bangalore

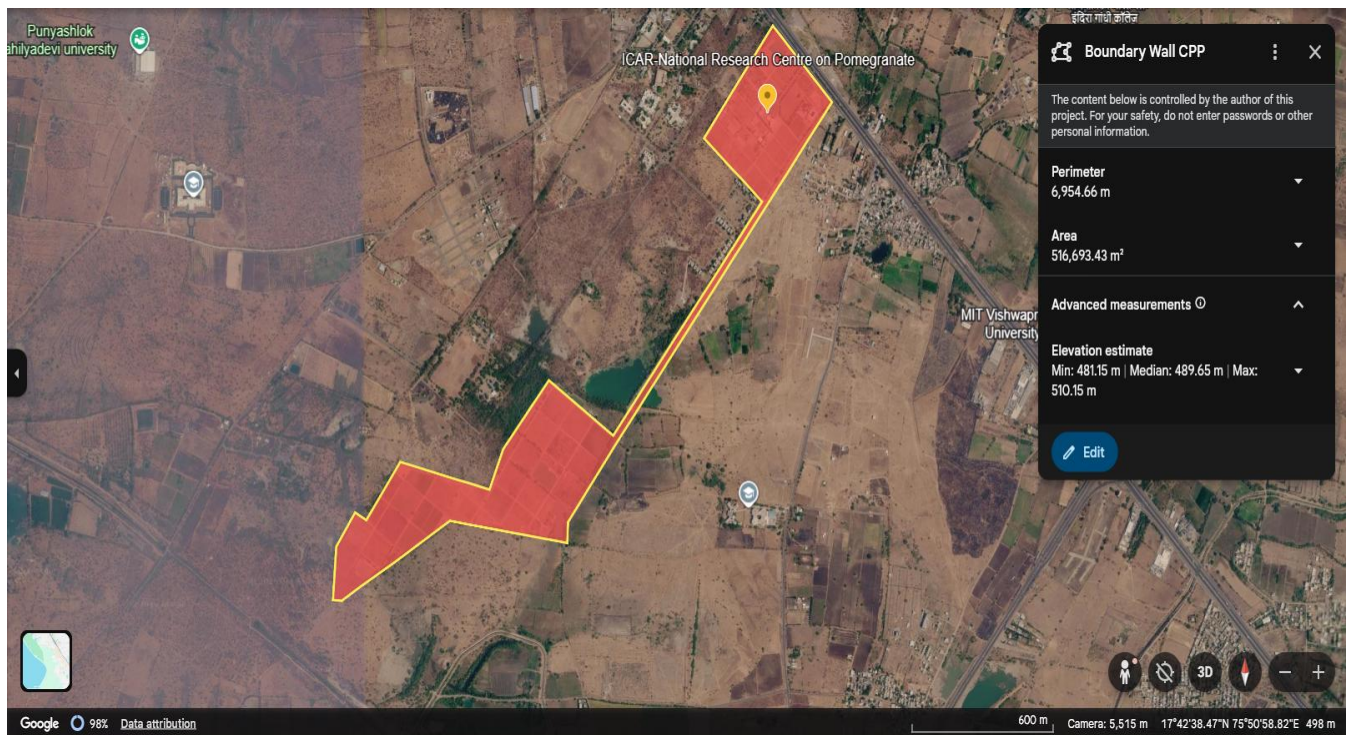
ICAR- NRCP, Solapur, Maharashtra

1.Site Layout Plane CPP Building & Laboratory





1 A. Boundary Wall



Total Length of Boundary Wall : 6954.66 Meter (Approx)

2. Approach Road to the site location to the CPP Building



Total Length: 3240.75 meter

Width: 7 meters



3. Coordinate of the CPC site location



Coordinates :

17°42'17.73"N

17°45'38.91"E



4. Image of Sites











Dmart Amravati Road

Rajat Hill

SHRI SAI MEDICAL & WELLNESS STORE

Chaitanya ITI Private Institute

volleyball court & kabaddi court
हॉलीबॉल कोर्ट & कबड्डी कोर्ट

ICAR Central Citrus Research Station
भा.कृ. अनु.प. - केंद्रीय लिंबवर्गीय फल

Type - V (1)



21.149453 °N, 79.021890 °E

Area ~10 Acres

Proposed site of CPC building

Google Maps

Actual Proposed Site

