

**MINUTES OF THE 48th MEETING OF THE EXPERT GROUP ON ZOO
DESIGNING OF THE CENTRAL ZOO AUTHORITY HELD ON
3RD FEBRUARY, 2014**

The 48th Meeting of the Expert Group of the Central Zoo Authority on Zoo Designing was held in the Members' Room of the Central Zoo Authority, New Delhi on 3rd February, 2014. The list of participants is annexed at **Annexure – I**.

Leave of absence to Sh. Kartick Satyanarayan, Prof. (Dr.) Surinder Suneja, Prof. (Dr.) Rommel Mehta and Chief Engineer (CCU), who could not attend the Meeting was granted. Thereafter, the Agenda Items were taken up for discussion.

Agenda Items No. 1 **Master Plan/ Master (layout)
Plan of the Zoos**

1. Revised Master Plan of the Kanpur Zoological Park, Kanpur, Uttar Pradesh

The Master plan was scrutinized and following observations were made:-

- a) The proposal for zoo train does not provide history and background. The zoo authorities should be asked to describe in detail the conditions to be followed as of prescribed by the Central Zoo Authority particularly to prevent air pollution, noise pollution and cutting of trees.
- b) The Master plan should have clearly spelled out, the zoo train should only be operated by using battery.
- c) The zoo can have only 15 numbers of exotic species in his collection. Under the circumstances the budgerigar, zebra pinch, love birds, cockatiel should be removed from the collection plan immediately.
- d) The species of high hills birds like Kaleej, Cheer, Monal should not be part of animal collection plan.
- e) Spotted dove, Pigeon, Crow pheasant should be taken away from the plan.
- f) The animal collection plan seems to be quite ambitious regarding housing of birds of prey. Getting species like Shahin falcon and fishing eagle are minimal. Therefore same should be removed from animal collection plan.
- g) The herbivore safari was never approved as a part of Master (layout) Plan, the same should be rectified in the Master Plan.
- h) The layout plan attached with the Master Plan is not legible, therefore the copy of the approved, duly authenticated by the Member Secretary should be enclosed in real size in colour print.
- i) It was emphasis during discussion that the herbivore kraal should be made covered.
- j) The provision of the same should be indicated in the Master plan.

V. **Himalayan Zoological Park, Gangtok, Sikkim**

Design for the construction of Rescue Centre at Himalayan Zoological Park, Gangtok

The design was scrutinized and not approved, however the following observations were made:-

- a) The species for which rescue centre is proposed to be mention.
- b) The design should have detail dimension.
- c) The rescue Centre should have provision of housing of animals only, rest of the facilities like healthcare, labs, store are not necessary. The zoo may use the existing facility at the zoo for the purpose.
- d) The design of rescue centre for leopards proposed at Malsi Deer Park, may be sent for the reference.

VI. **Jodhpur Zoo, Jodhpur, Rajasthan**

1. Porcupine

The design was scrutinized and approved subject to the condition that the floor of the exhibit should have enough soil and sand to meet the behavior requirement.

2. Spiny tail Lizard, Hedgehog, Monitor lizard and Smaller animal

The designs were scrutinized and not approved, however the following observations were made:-

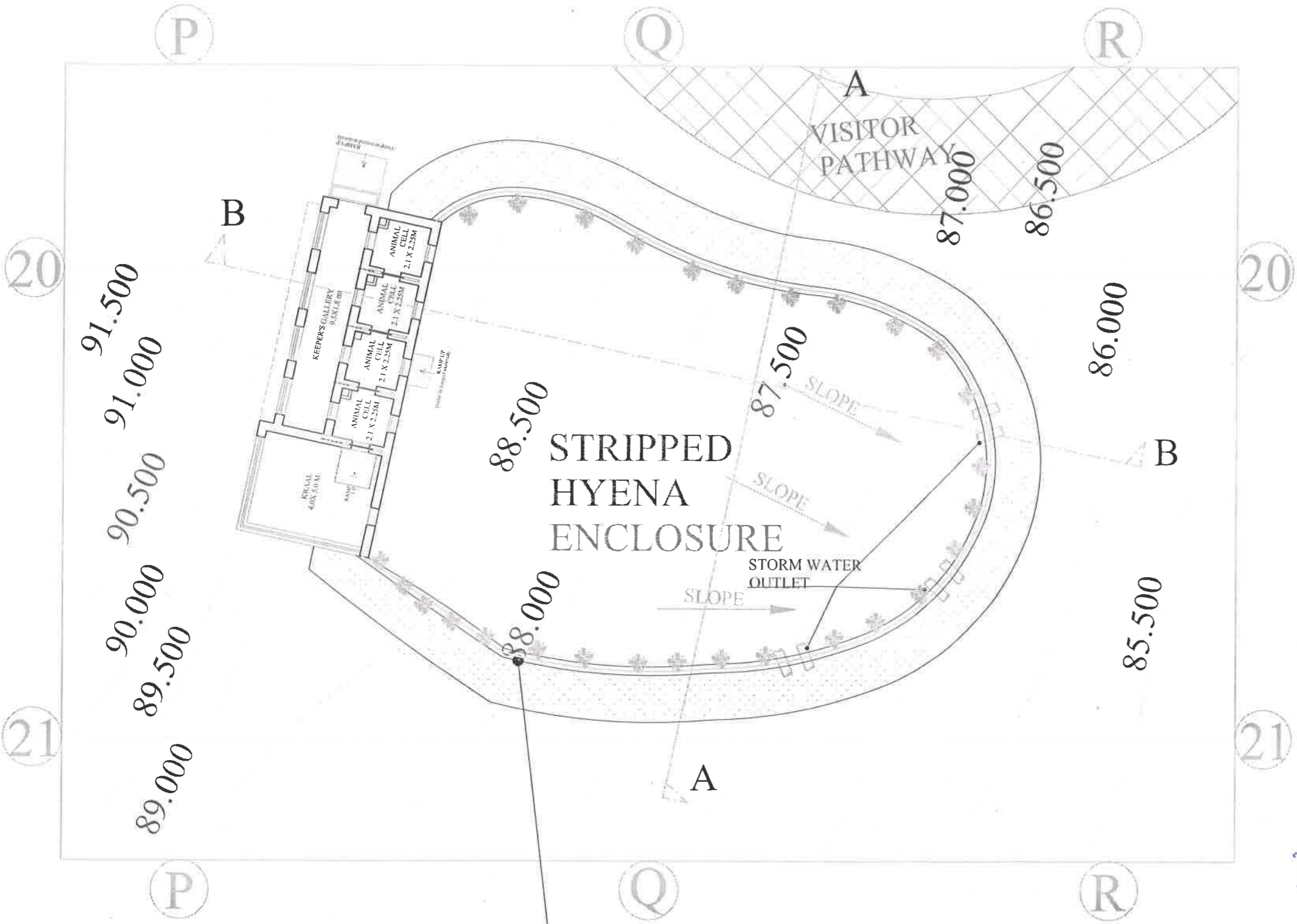
- a) Instead of opening of Spiny tail lizard and Monitor lizard and hedgehog, it should be made in the form of reptile and nocturnal house covered on top.
- b) The reptile and nocturnal house should have proper ventilation, water circulation.
- c) Before preparing the design the zoo director may visit Kamla Nehru Zoological Garden, Ahmedabad to see the reptile house.

3. Desert cat, Desert fox, Common fox, Jungle cat, Jackal, Indian wolf, Bear and Striped hyena

All the design were scrutinized and approved subject to the following:

- a) Opening towards the keepers' gallery should be fully grilled and there should be no wall, including on the corners.
- b) Opening to paddock area through the sliding door.

124



Abhinav

(48000 sq ft @ 3.0)

3/2/13

J. Ender

J. Ender

Pray

(D.K. Singhal)
Project Officer
R.S.R.D.C. Ltd.
Unit -1 JODHPUR

Pray

P.M. JAIN
PROJECT DIRECTOR
RSRDC LTD.
JODHPUR

Chain link Fence 50mm x50mmx8 g(3 m high)
 on 375mm th.& 600mmhigh Jodhpur Stone
 Masonry wall with 60° inclined 1.5 m
 overhang with MS sheet

(एन.एन.गोखले)
उप वन संरक्षक
वन्य जीव, जोधपुर

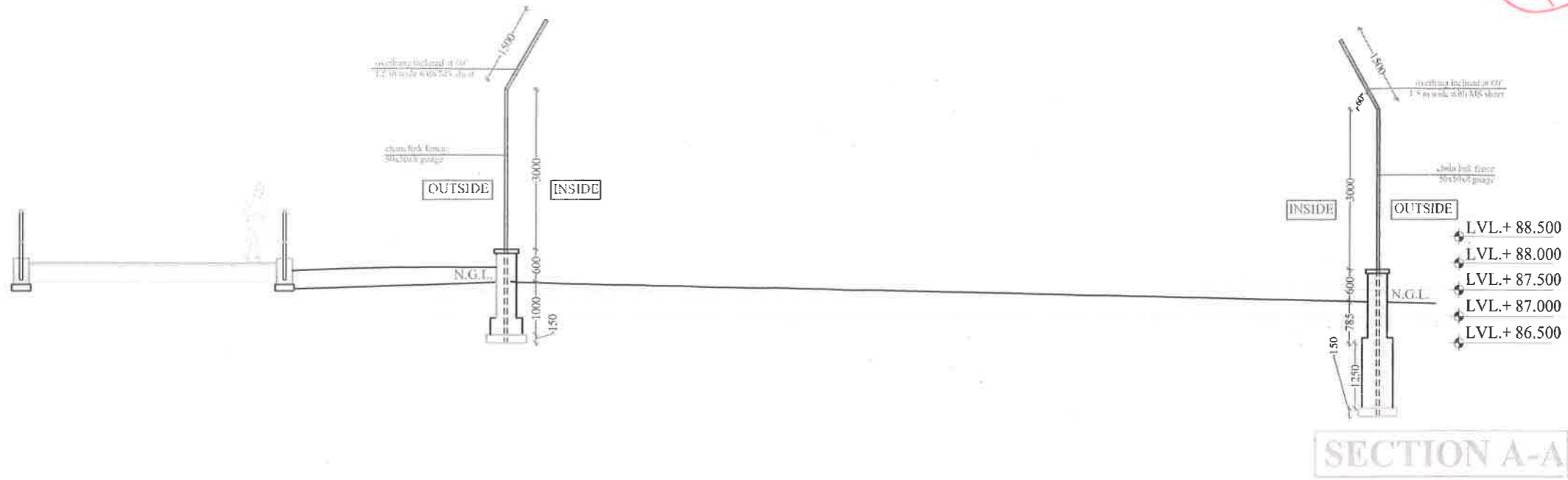
PLAN GRID SIZE
20M X 20 M

AREA:- 398 SQ.MT.

STRIPPED HYENA
ENCLOSURE

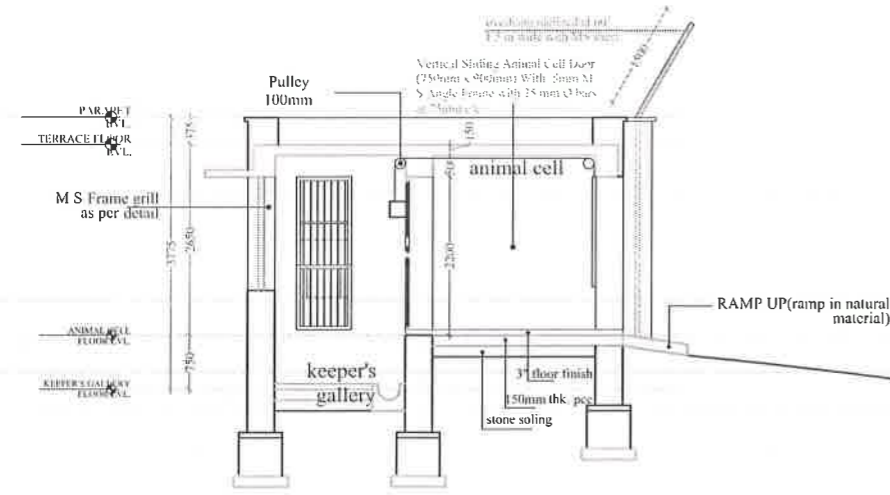
060001 PROPOSED SATELLITE MACHIA BIOLOGICAL PARK, JODHPUR	RSRDC	<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS</th> </tr> </thead> <tbody> <tr><td>1</td><td>11.09.10</td><td>Site plan preparation</td></tr> <tr><td>2</td><td>14.05.10</td><td>20m x 20m grid size and 20m x 20m</td></tr> <tr><td>3</td><td>14.10.10</td><td>Final 2D plan preparation</td></tr> <tr><td>4</td><td>25.01.11</td><td>Final 2D plan preparation</td></tr> <tr><td>5</td><td>02.02.11</td><td>Final 2D plan preparation</td></tr> <tr><td>6</td><td>29.07.11</td><td>Site plan preparation</td></tr> <tr><td>7</td><td>16.08.12</td><td>Final 2D plan preparation</td></tr> <tr><td>8</td><td>02.01.13</td><td>Final 2D plan preparation</td></tr> </tbody> </table>	NO.	DATE	REVISIONS	1	11.09.10	Site plan preparation	2	14.05.10	20m x 20m grid size and 20m x 20m	3	14.10.10	Final 2D plan preparation	4	25.01.11	Final 2D plan preparation	5	02.02.11	Final 2D plan preparation	6	29.07.11	Site plan preparation	7	16.08.12	Final 2D plan preparation	8	02.01.13	Final 2D plan preparation	<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS</th> </tr> </thead> <tbody> <tr><td>1</td><td>21.06.12</td><td>Final 2D plan preparation</td></tr> <tr><td>2</td><td>10.07.12</td><td>Final 2D plan preparation</td></tr> </tbody> </table>	NO.	DATE	REVISIONS	1	21.06.12	Final 2D plan preparation	2	10.07.12	Final 2D plan preparation	<table border="1"> <thead> <tr> <th>NO.</th> <th>DATE</th> <th>REVISIONS</th> </tr> </thead> <tbody> <tr><td>1</td><td>21.06.12</td><td>Final 2D plan preparation</td></tr> <tr><td>2</td><td>10.07.12</td><td>Final 2D plan preparation</td></tr> </tbody> </table>	NO.	DATE	REVISIONS	1	21.06.12	Final 2D plan preparation	2	10.07.12	Final 2D plan preparation	<table border="1"> <tr> <td>PROPOSAL PLAN</td> <td>STRIPPED HYENA ENCLOSURE</td> </tr> <tr> <td>Checked by:- Kavita Jain</td> <td>Made by:- PODDA SONI</td> </tr> <tr> <td>DATE: 09 Jan, 2013</td> <td>SCALE: 1:100</td> </tr> <tr> <td>Drawing No: Bhopark/Machia STRIPPED HYENA 40</td> <td></td> </tr> </table>	PROPOSAL PLAN	STRIPPED HYENA ENCLOSURE	Checked by:- Kavita Jain	Made by:- PODDA SONI	DATE: 09 Jan, 2013	SCALE: 1:100	Drawing No: Bhopark/Machia STRIPPED HYENA 40		<table border="1"> <tr> <td> Kavita Jain The 'FORMS' ARCHITECTURE </td> <td> Architecture Enclosure Landscape Interior </td> </tr> </table>	Kavita Jain The 'FORMS' ARCHITECTURE	Architecture Enclosure Landscape Interior	
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124



- LVL. + 88.500
- LVL. + 88.000
- LVL. + 87.500
- LVL. + 87.000
- LVL. + 86.500

SECTION A-A



- LVL. + 92.000
- LVL. + 91.500
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3/2/11

SECTION B-B

Jitendra J.E

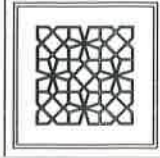
(D.K. Singhai)
Project Officer
R.S.R.D.C. Ltd.
Unit -1 JODHPUR

P.M. JAIN
PROJECT DIRECTOR
RSRDC LTD.
JODHPUR

(एम.एस.राठीव)
उप वन संरक्षक
वन चौक, जोधपुर

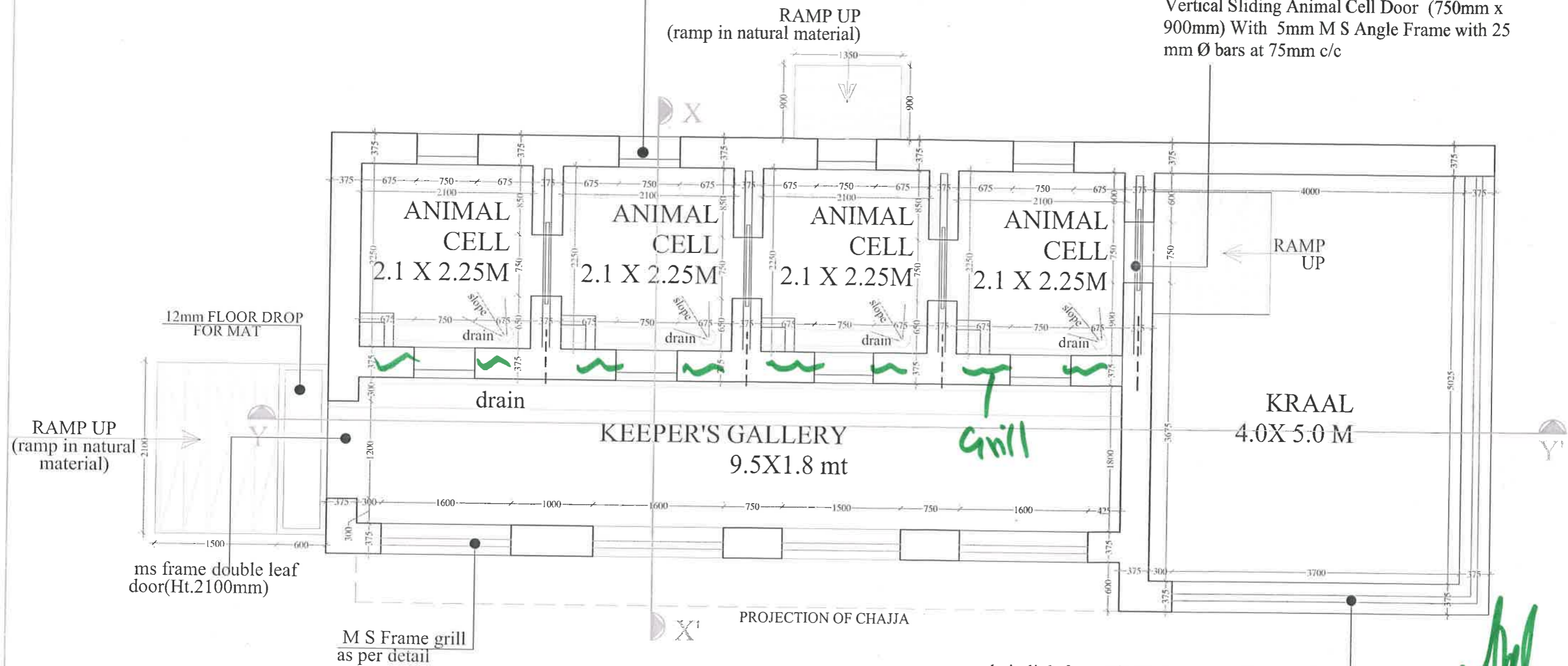
STRIPPED HYENA
ENCLOSURE

PROJECT PROPOSED SATELLITE MACHIA BIOLOGICAL PARK, JODHPUR	ISSUED BY RSRDC	NO. DATE REVISIONS 1 11.01.11 Final design of enclosure 2 11.02.11 Add Barbed wire to enclosure 3 11.03.11 Add 20cm gauge chain link fence 4 11.04.11 Add 3" floor finish to enclosure 5 11.05.11 Add 50mm thick pos stone soiling to enclosure 6 11.06.11 Add 100mm pulley to enclosure 7 11.08.11 Add 1.5m wide overhang to enclosure 8 11.09.11 Add 1.5m wide overhang to enclosure	NO. DATE REVISIONS 1 21.09.11 Change of Plan & Section of Enclosure 2 27.01.11 Change of Plan & Section of Enclosure	PROPOSAL SECTION STRIPPED HYENA ENCLOSURE	CHECKED BY Kavita Jain	DATE: 09 Jan, 2011	DRAWING NO. Bhupak Machia STRIPPED HYENA- 02
	PREPARED BY The 'FORMS', JAIPUR			SCALE: 1:100			



Vertical Sliding Animal Cell Door
(750mm x 900mm) With
5mm M S Angle Frame with
25 mm Ø bars at 75mm c/c

Vertical Sliding Animal Cell Door (750mm x
900mm) With 5mm M S Angle Frame with 25
mm Ø bars at 75mm c/c



chain link fence 50x50x8 gauge with angle iron
post 75x75x8 MM @ 3m c/c in c.c. on 375mm
th. & 600mm high jodhpur stone masonry wall as
per detail

J. Ender
J.E.
(D.K. Singhal)
Project Officer
R.S.R.D.C. Ltd.
Unit -1 JODHPUR

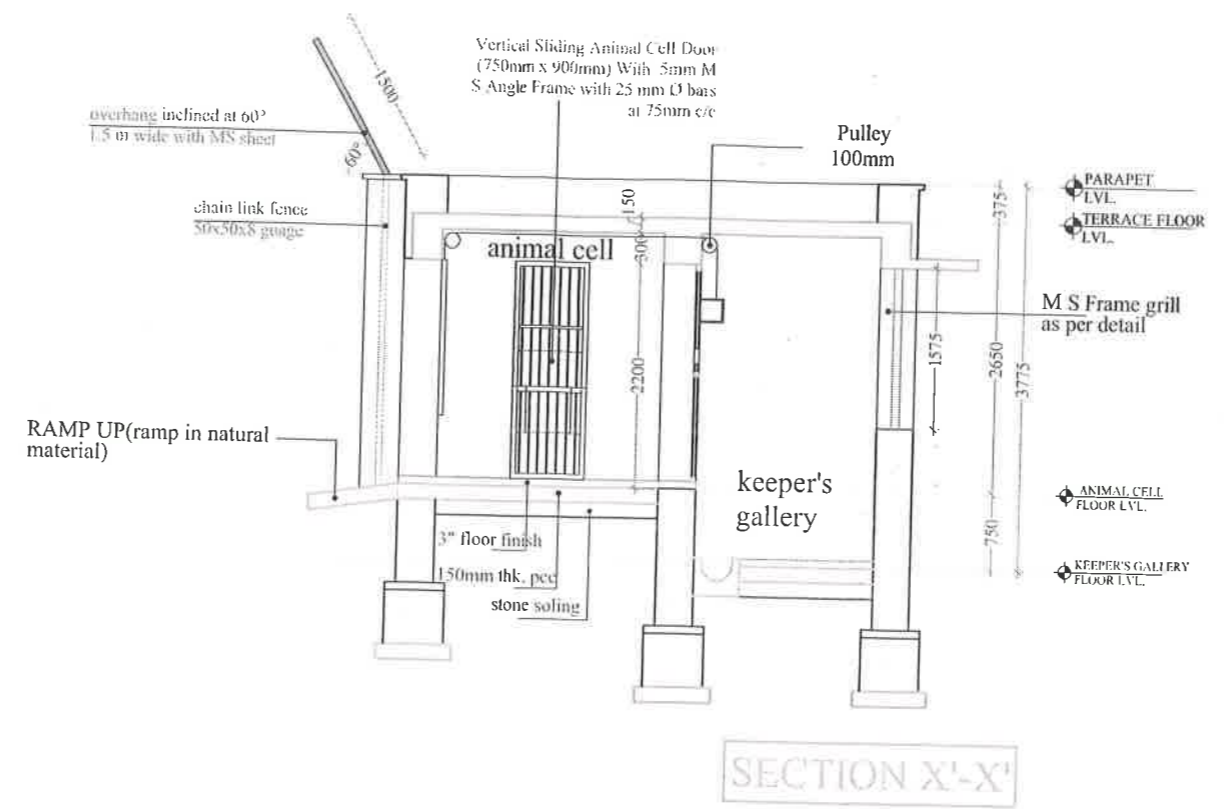
P.M. JAIN
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(एम.एस. शर्मा)
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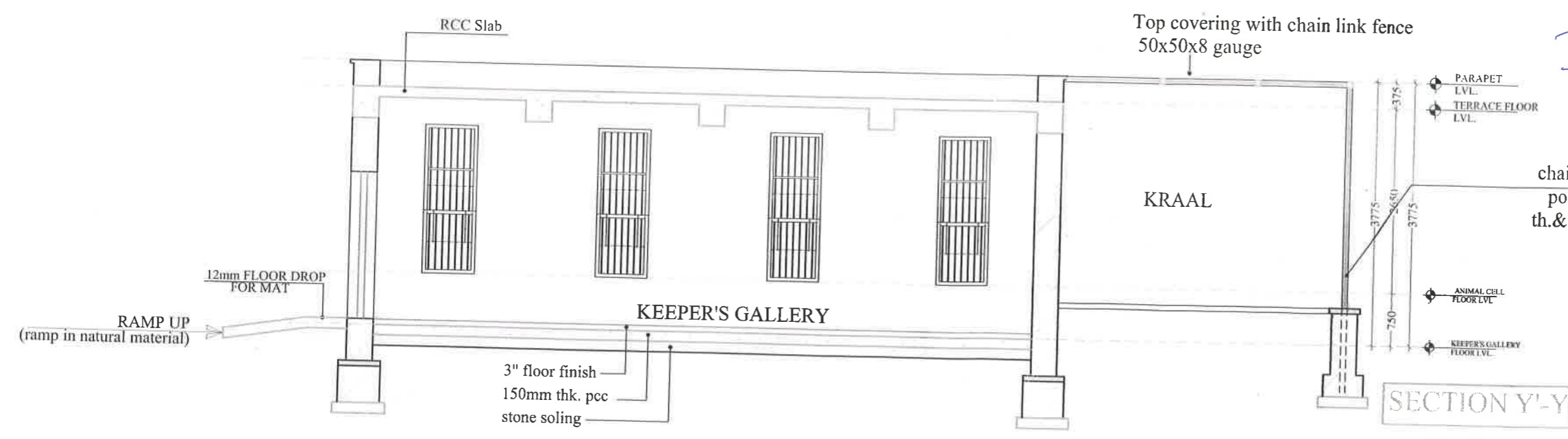
HOLDING AREA/NIGHT
SHELTER PLAN

STRIPPED HYENA ENCLOSURE

PROJECT PROPOSED SATELLITE MACHIA BIOLOGICAL PARK, JODHPUR	NO. OF SHEETS 1	No. 1 DATE 11/05/14 REVISIONS 1. Initial drawing	No. 2 DATE 11/05/14 REVISIONS 2. Final drawing	HOLDING AREA/NIGHT SHELTER PLAN	STRIPPED HYENA ENCLOSURE	CONSULTANT Kavita Jain Architect The 'FORMS' ARCHITECTS JODHPUR	
		No. 3 DATE 11/05/14 REVISIONS 3. Final drawing	No. 4 DATE 11/05/14 REVISIONS 4. Final drawing	Checked by: Kavita Jain	DATE: 09 Jan, 2015	SCALE: 1/20	



SECTION X'-X'



SECTION Y'-Y

J. R.
(D.K. Singhal)
 Project Officer PROJECT DIRECTOR
 R.S.R.D.C. Ltd.
 Unit -1 JODHPUR

P.M. JAIN
 PROJECT DIRECTOR
 RSRDC LTD
 JODHPUR

chain link fence 50x50x8 gauge with angle iron post 75x75x8 MM @ 3m c/c in c.c. on 375mm th. & 600mm high jodhpur stone masonry wall as per detail

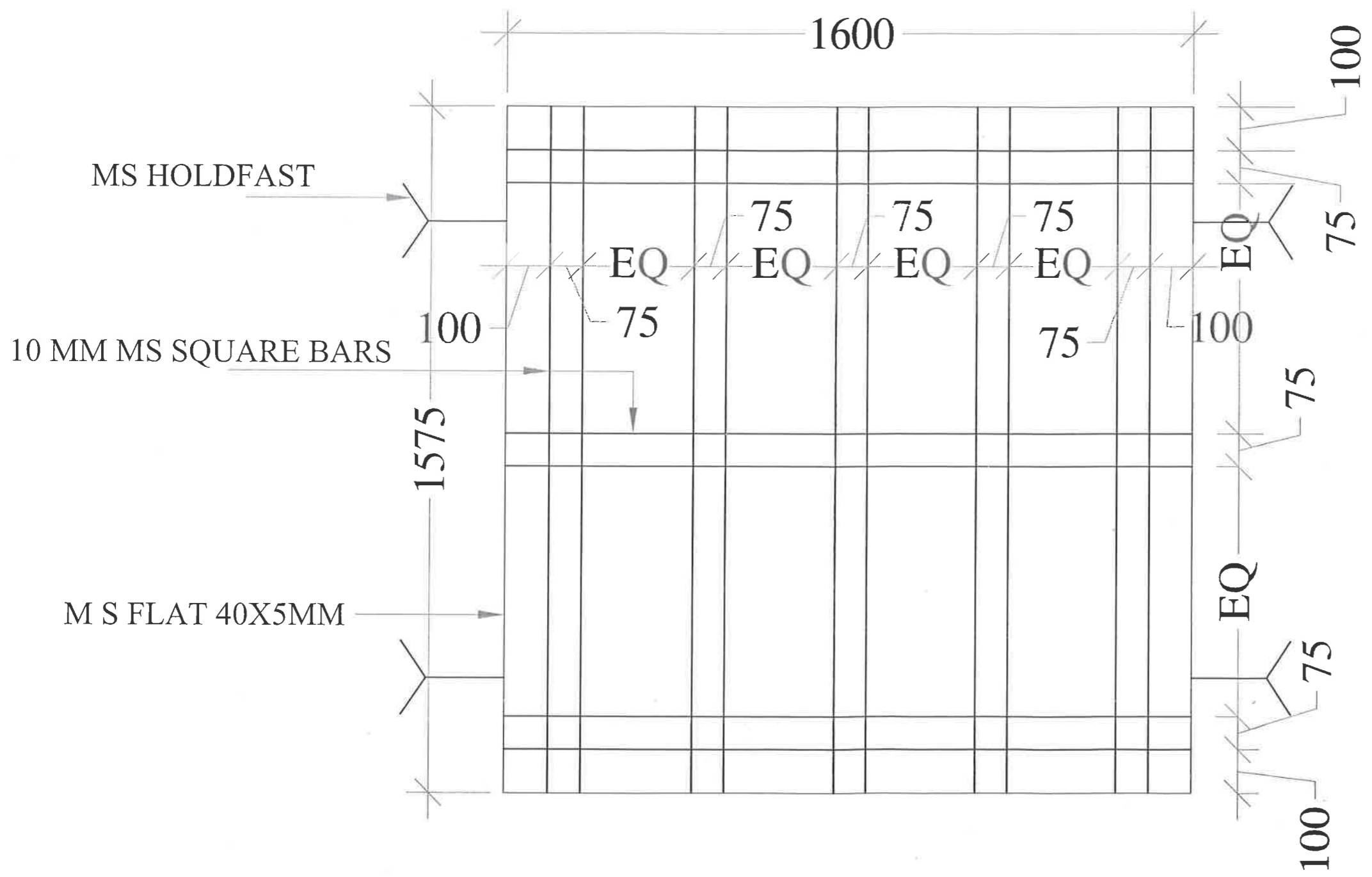
(एस.एस.सरोज)
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HOLDING AREA/NIGHT SHELTER SECTIONS

STRIPPED HYENA ENCLOSURE

PROPOSED SATELLITE MACCHA BIOLOGICAL PARK, JODHPUR RSRDC The 'FORMS', JAIPUR	NO. DATE REVISIONS 1. 11.01.11 Detail drawing 2. 11.01.11 3. 12.11.11 4. 22.01.11 5. 05.02.11 6. 29.02.11	NO. DATE REVISIONS 1. 11.01.11 2. 11.01.11 3. 11.01.11 4. 11.01.11 5. 11.01.11 6. 11.01.11	HOLDING AREA/NIGHT SHELTER SECTIONS STRIPPED HYENA ENCLOSURE Checked by: Kavita Jain Made By: POOJA SONI DATE: 09 Jun 2015 Drawing No.: Jodhpur-Macchia-STRIPPED HYENA -04	CONSULTANT: Kavita Jain The 'FORMS' Architecture, Engineering, Landscape Interiors 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	
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124



M S FRAME GRILL DETAIL

Jitendra J.P.
(D.K. Singhal)
 Project Officer
 R.S.R.D.C. Ltd.
 Unit -1 JODHPUR

P.M. JAIN
 PROJECT DIRECTOR
 RSRDC LTD
 JODHPUR

(एम.एस.एलसी)
 उप वन संरक्षक
 कच पीव, जोधपुर

PROJECT: PROPOSED SATELLITE MACHHA BIOLOGICAL PARK, JODHPUR	CLIENT: RSRDC		NO. 1 DATE: 15/06/21 BY: S.H.	MS FRAME GRILL, DLSR	CHECKED BY: Kavita Jain	MADE BY: POOJA SONI	DRAWING NO: Reports/Machha/STRIPPED/HYPNA_04
	PROJECTING: The 'FORMS', JAIPUR		2 DATE: 15/11/20 BY: S.H.	DATE: 09 Jun 2013	SCALE: 1/75		
	3 DATE: 16/06/17 BY: S.H.		4 DATE: 16/06/17 BY: S.H.	5 DATE: 16/06/17 BY: S.H.	6 DATE: 16/06/17 BY: S.H.	7 DATE: 16/06/17 BY: S.H.	

