

**Amendment No. 5****16-11-2017****Sub: Amendment to the Bidding Document**

**Ref.: Notice Inviting Bid ref. HITES/PCD/NCI-AIIMS/02/17-18 dated 14.09.2017 read with its Amendment No. 1, Amendment No. 2, Amendment No. 03 and Amendment No. 04 dated 25.10.2017, 27.10.2017, 03.11.2017 and 14.11.2017 respectively.**

The following changes have been authorised and are being incorporated in the above referred Bidding Document.

**SECTION - VII****TECHNICAL SPECIFICATION AND GENERAL POINTS****A. TECHNICAL SPECIFICATION****Item sl. no. 01****3.0 TESLA MR SCANNER**

Sl. No	Tender Page & Para	Existing Specification	Read As
1	Page 45 Para 3.a.ii	<b>3. Gradient System a) General</b> <b>(ii)</b> Minimum Gradient Strength should be 45 mT/m or more along each axis and a slew rate of 200 T/m/s in each axis.	<b>3. Gradient System a) General</b> <b>(ii)</b> Minimum Gradient Strength should be <b>44 mT/m</b> or more along each axis and a slew rate of 200 T/m/s in each axis.
2	Page 53-54 Para 7.k	<b>7. Special Application Packages:</b> <b>7. s :</b> Silent MRI for neuro protocols including T1W, T2W imaging without any loss of image quality on all sequences (like Neuro Silent/ Silenz, or equivalent), with noise less than 80 dB. The quiet scanning should be without loss of SNR and without prolongation of scan time. <b>The silent sequences should be dedicated inaudible sequence without compromising gradient performance(s).</b>	<b>7. Special Application Packages:</b> <b>7. s :</b> Silent MRI for neuro protocols including T1W, T2W imaging without any loss of image quality on all sequences (like Neuro Silent/ Silenz, or equivalent), with noise less than 80 dB. The quiet scanning should be without loss of SNR.
3	Amendment no. 2	<b>Site Modification Work:</b> <b>7 . AIR CONDITIONING: minimum 16 TR (10 TR working + 6 TR standby)</b> <b>i. Duct-able Package air conditioners</b> and split AC units may be used according to room requirement and suitability	<b>Site Modification Work:</b> <b>7 . AIR CONDITIONING: minimum 16 TR (10 TR working + 6 TR standby)</b> <b>i. Duct-able split air conditioners and split AC units may be used according to room requirement and suitability.</b>

Sl. No	Tender Page & Para	Existing Specification	Read As
4	Amendment no. 2	<b>SITE MODIFICATION SCOPE OF WORK: 10 . Miscellaneous</b>	<b>SITE MODIFICATION SCOPE OF WORK: 10 . Miscellaneous Added Para v) 1 sink in Preparation room of MRI facility</b>

**Item sl. no. 02****256 SLICE DUAL ENERGY CT**

Sl. No	Tender Page & Para	Existing Specification	Read As
1	Amendment no. 2	<b>Site Modification Work: 11. AIR CONDITIONING: minimum 14 TR (9 TR Working + 5 TR Standby) i. Duct-able Package air conditioners and split AC units may be used according to room requirement and suitability</b>	<b>Site Modification Work: 11. AIR CONDITIONING: minimum 14 TR (9 TR Working + 5 TR Standby) i. Duct-able split air conditioners and split AC units may be used according to room requirement and suitability.</b>
2	Amendment no. 2	<b>SITE MODIFICATION SCOPE OF WORK: 13 . Miscellaneous</b>	<b>SITE MODIFICATION SCOPE OF WORK: 13 . Miscellaneous Added Para iv) 1 sink in Preparation room of CT Scan facility</b>

**Item sl. no. 03****128 SLICE CT SCAN UNIT**

Sl. No	Tender Page & Para	Existing Specification	Read As
1	Amendment no. 2	<b>Site Modification Work: 11. AIR CONDITIONING: minimum 14 TR (9 TR Working + 5 TR Standby) i. Duct-able Package air conditioners and split AC units may be used according to room requirement and suitability</b>	<b>Site Modification Work: 11. AIR CONDITIONING: minimum 14 TR (9 TR Working + 5 TR Standby) Duct-able split air conditioners and split AC units may be used according to room requirement and suitability.</b>
2	Amendment no. 2	<b>SITE MODIFICATION SCOPE OF WORK: 13. Miscellaneous</b>	<b>SITE MODIFICATION SCOPE OF WORK: 13. Miscellaneous iv) 1 sink in Preparation room of CT Scan facility</b>

**Item sl. no. 04****DIGITAL SUBTRACTION ANGIOGRAPHY**

Sl. No	Tender Page & Para	Existing Specification	Read As
1	Amendment no. 2	<b>Site Modification Work:</b> <b>6. AIR CONDITIONING: minimum 14 TR ( 9 TR Working + 5 TR Standby)</b> i. <b>Duct-able Package air conditioners</b> and split AC units may be used according to room requirement and suitability	Site Modification Work: 6. AIR CONDITIONING: minimum 14 TR ( 9 TR Working + 5 TR Standby) <b>Duct-able split air conditioners and split AC units</b> may be used according to room requirement and suitability.
2	Amendment no. 2	<b>SITE MODIFICATION SCOPE OF WORK:</b> <b>8 . Miscellaneous</b>	SITE MODIFICATION SCOPE OF WORK: 8 . Miscellaneous <b>Added Para</b> <b>iv) 1 sink in Preparation room of DSA facility</b>

**Item sl. no. 05****DIGITAL FLAT PANEL RADIOGRAPHY FLUOROSCOPY SYSTEM**

Sl. No	Tender Page & Para	Existing Specification	Read As
1	Page 82 Para 8.2	<b>8.2 Online UPS of minimum capacity of 150 KVA with 15 minutes backup for the entire system</b>	<b>8.2 Online UPS of minimum capacity of 5 KVA with 15 minutes backup for the ACQUISITION WORKSTATION &amp; POST-PROCESSING WORKSTATIONS.</b>
2	Page 82 Para 9		<b>Clarified as:</b> There is no need of a separate UPS room. The ups capacity has been reduced to minimum 5 KVA.
3		<b>Site Modification Scope of Work – DIGITAL RADIOGRAPHY- FLUOROSCOPY SYSTEM :</b> <b>Electrical work</b> The supplier shall be required to specify the total load requirements for the Digital Radiography – Fluoroscopy system including the load of air conditioning, room lighting and for the accessories if any. The supply line will be provided by the Institute up to one point within the Digital Radiography - Fluoroscopy area. The distribution panel for UPS, Digital Radiography – Fluoroscopy system shall be provided by the vendor. <b>Few lights in each room shall be connected to the UPS to provide emergency lighting.</b>	<b>Site Modification Scope of Work – DIGITAL RADIOGRAPHY- FLUOROSCOPY SYSTEM :</b> <b>Electrical work</b> The supplier shall be required to specify the total load requirements for the Digital Radiography – Fluoroscopy system including the load of air conditioning, room lighting and for the accessories if any. The supply line will be provided by the Institute up to one point within the Digital Radiography - Fluoroscopy area. The distribution panel for UPS, Digital Radiography – Fluoroscopy system shall be provided by the vendor.

Sl. No	Tender Page & Para	Existing Specification	Read As
4	Amendment no. 2	<b>Site Modification Work:</b> <b>9. AIR CONDITIONING: minimum 9 TR ( 6 TR Working + 3 TR Standby)</b> i. <b>Duct-able Package air conditioners</b> and split AC units may be used according to room requirement and suitability	Site Modification Work: 9. AIR CONDITIONING: minimum 9 TR (6 TR Working + 3 TR Standby) <b>Duct-able split air conditioners and split AC units</b> may be used according to room requirement and suitability.
5	Amendment no. 2	<b>SITE MODIFICATION SCOPE OF WORK:</b> <b>11 . Miscellaneous</b>	SITE MODIFICATION SCOPE OF WORK: 11. Miscellaneous <b>Added Para</b> <b>ii. 1 sink in Change room of Digital Fluoroscopy facility.</b>

**Item sl. no. 06**

**DIGITAL X-RAY UNIT**

Sl. No	Tender Page & Para	Existing Specification	Read As
1	Page 88 Para 8.c	<b>Accessories</b> <b>8. c)</b> UPS along with batteries of appropriate rating to give 15 min. back up to operate the complete system including X-Ray machine and Imager.	<b>Accessories</b> <b>8. c)</b> Online UPS of minimum capacity of 5 KVA with 15 minutes backup for the <b>ACQUISITION WORKSTATION &amp; POST-PROCESSING WORKSTATIONS.</b>
2	Page 88 Para 9		<b>Clarified as:</b> There is no need of a separate UPS room. The ups capacity has been reduced to minimum 5 KVA.
3	Page 89	<b>Site Modification Work:</b> <b>d) Electrical work :</b> The supplier shall be required to specify the total load requirements for the Digital Xray including the load of air conditioning , room lighting and for the accessories if any. The supply line will be provided by the Institute up to one point within the DIGITAL XRAY Scan area. The distribution panel for UPS, DIGITAL XRAY shall be provided by the vendor. <b>Few lights in each room shall be connected to the UPS to provide emergency lighting.</b>	<b>Site Modification Work:</b> <b>d) Electrical work :</b> The supplier shall be required to specify the total load requirements for the Digital X-ray including the load of air conditioning , room lighting and for the accessories if any. The supply line will be provided by the Institute up to one point within the DIGITAL X-RAY Scan area. The distribution panel for UPS, DIGITAL X-RAY shall be provided by the vendor.
4	Amendment no. 2	<b>Site Modification Work:</b> <b>7. AIR CONDITIONING: minimum 9 TR ( 6 TR Working + 3 TR Standby)</b> i. <b>Duct-able Package air conditioners</b> and split AC units may be used according to room requirement and suitability	Site Modification Work: 7. AIR CONDITIONING: minimum 9 TR ( 6 TR Working + 3 TR Standby) <b>Duct-able split air conditioners and split AC units</b> may be used according to room requirement and suitability.

**Item sl. no. 07****FULL FIELD DIGITAL MAMMOGRAPHY UNIT**

Sl. No	Tender Page & Para	Existing Specification	Read As
1	Page 94 Para 11.	<b>11. Standard accessories:</b> <b>11 h.</b> UPS for 15 minutes back-up for entire system.	<b>11. Standard Accessories:</b> <b>11. h :</b> Online UPS of minimum capacity of 5 KVA with 15 minutes backup for the <b>ACQUISITION WORKSTATION &amp; POST-PROCESSING WORKSTATIONS.</b>
2			<b>Clarified as:</b> There is no need of a separate UPS room. The ups capacity has been reduced to minimum 5 KVA.
3	Amendment no. 2	<b>Site Modification Work:</b> <b>8. AIR CONDITIONING: minimum 6 TR ( 4 TR Working + 2 TR Standby)</b> i. <b>Duct-able Package air conditioners</b> and split AC units may be used according to room requirement and suitability	Site Modification Work: 8. AIR CONDITIONING: minimum 6 TR ( 4 TR Working + 2 TR Standby) <b>Duct-able split air conditioners and split AC</b> units may be used according to room requirement and suitability.
4	Amendment no. 2	<b>SITE MODIFICATION SCOPE OF WORK:</b> <b>09 . Miscellaneous</b>	SITE MODIFICATION SCOPE OF WORK: 09. Miscellaneous <b>Added Para</b> <b>ii. 1 sink in Mammography facility</b>

**Note:****1. SITE MODIFICATION AREA for all items under this NIB-**

Revised site plan showing the location of the radiology equipment, as well as site modification area is attached in the following 2 pages for reference.

2. Bidders may simulate bid submission (technical & financial) at least one week in advance of the bid submission deadline. No clarifications/troubleshooting regarding any problems being faced during bid submission online shall be entertained in the last week of bid submission.

**All other contents of the Bidding Document including terms & conditions remain unaltered.**

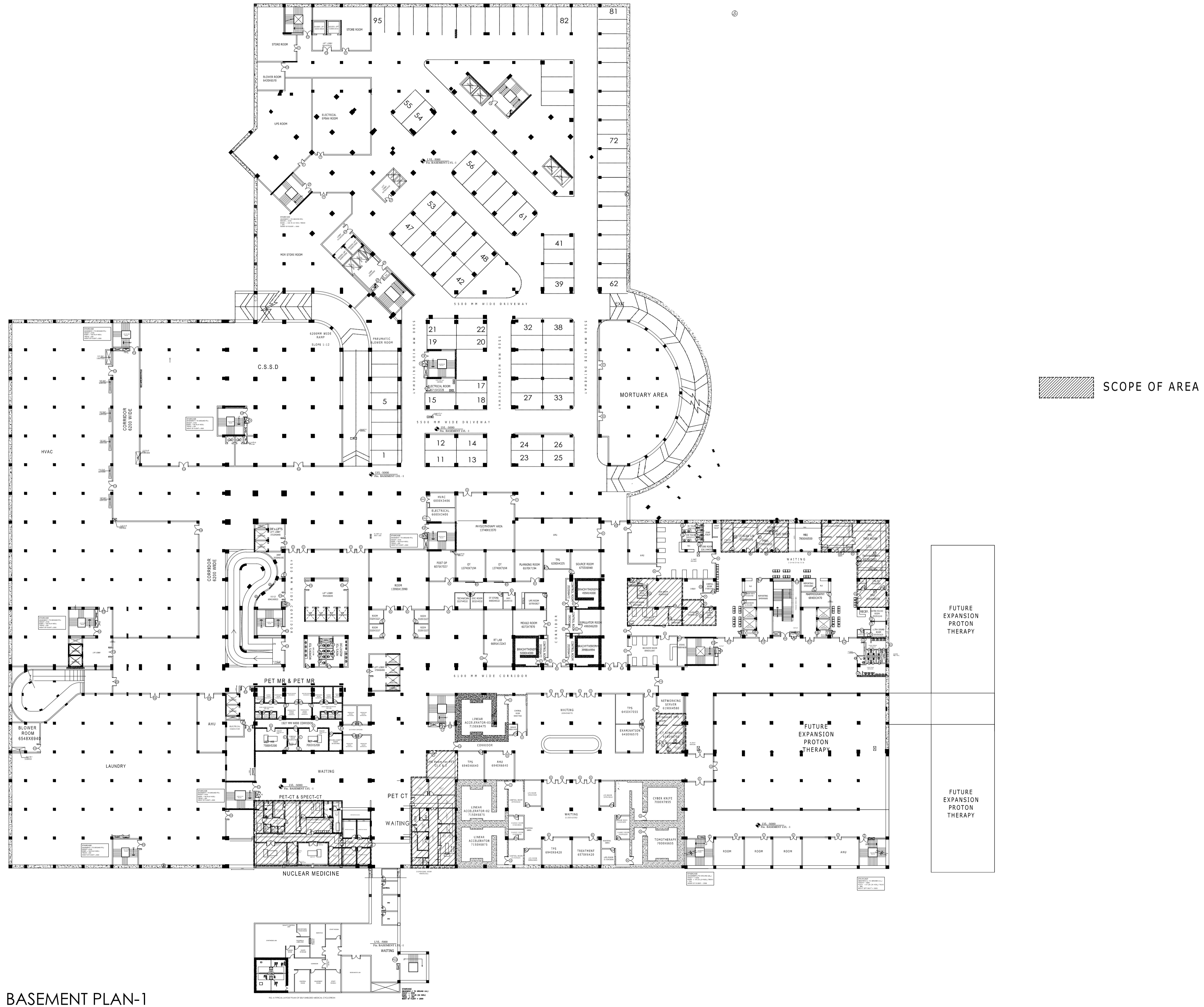
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NOTES

1. ALL DIMENSIONS ON THIS DRAWING ARE IN mm.
2. ONLY WRITTEN DIMENSIONS ARE TO BE FOLLOWED. DRAWINGS SHOULD NOT BE SCALED UNDER ANY CIRCUMSTANCES. ALL MEASUREMENTS MUST BE CHECKED AND VERIFIED BY THE CONTRACTORS PRIOR TO EXECUTION OF WORK AT THE SITE.
3. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL SERVICES & FACILITY PLANNING DRAWINGS.
4. ARCHITECTURAL DRAWINGS ARE TO BE FOLLOWED FOR THE LOCATION OF ALL STRUCTURAL MEMBERS & MASONRY WALLS.
5. FOR SIZES & REINFORCEMENT DETAILS OF STRUCTURAL MEMBERS RELEVANT STRUCTURAL DRAWINGS ARE TO BE REFERRED.
6. ANY DISCREPANCIES BETWEEN ARCHITECTURAL, STRUCTURAL AND SERVICES DRAWINGS MUST BE BROUGHT TO THE NOTICE OF THE PRIOR TO EXECUTION AT SITE.
7. COORDINATION WITH THE SERVICES SUCH AS HVAC, PLUMBING & ELECTRICAL ETC. IS THE RESPONSIBILITY OF THE CONTRACTORS.
8. ALL MASONRY WALLS SHALL BE ALIGNED WITH THE COLUMNS AS INDICATED ON THE PLAN (RESPECTIVE OF THE POSITION AS CALCULATED WITH THE DIMENSIONING).
9. FOR ELECTRICAL & LV SHEET SIZE & LOCATION REFER ELECTRICAL DRAWINGS.
10. FOR R.W.F., S.P.F., W.P. & M.W.S.P. SIZE & LOCATION REFER PLUMBING DRAWINGS.
11. LIFT OPENINGS AS LEFT APPROVED LIFT PROVIDER.
12. PARTIAL WALL MINIMUM 900mm HIGH FROM F.F.L.
13. ENGINEER INCHARGE TO ENSURE ALL STATUTORY APPROVALS BEFORE EXECUTION.

INTERNAL SCHEDULE OF OPENINGS

S. NO	TYPE	WIDTH	CILL	LINTEL	REMARKS
1	D1	1050	000	2400	
2	D2	2000	000	2400	DOUBLE SHUTTER (1000x 1000)
3	D3	1800	000	2400	
4	D4	800	000	2100	
5	D5	1300	000	2400	
6	D6	2150	000	2400	DOUBLE SHUTTER (1075x 1075)
7	D7	1500	000	2400	DOUBLE SHUTTER (750x 750)
8	D8	900	000	2100	
9	D9	750	000	2100	
10	D10	1200	000	2400	
11	SD1	1000	000	2400	
12	SD2	1800	000	2400	
13	SD3	2000	000	2400	
14	FCB	2000	000	2400	FIRE CHECK DOOR
15	FCB1	1500	000	2100	FIRE CHECK DOOR
16	FCB2	2150	000	2400	
17	FCB3	1050	000	2100	
18	FD	1200	100	2200	
19	W	1500	900	2400	
20	W1	1200	900	2400	
21	W2	2200	900	2400	
22	W3	1000	900	2400	
23	V	900	2100	2400	



BASEMENT PLAN-1

REV	DATE	DESCRIPTION
REVISION		

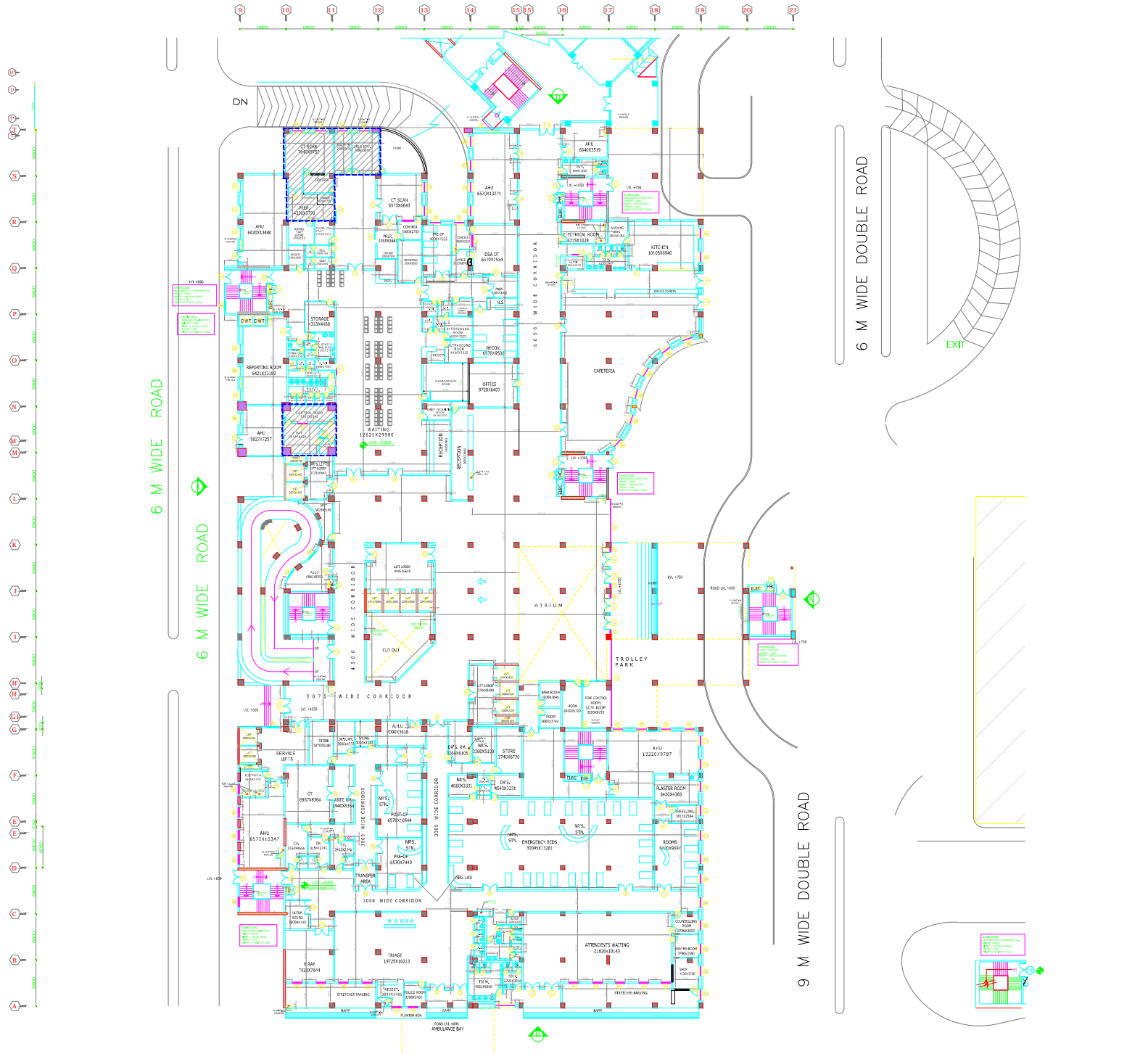
**PROJECT**  
 NCI - AIIMS  
 AT JHAJJAR  
 HARYANA

**TITLE**  
 WORKING DRAWING  
 BASEMENT PLAN

HSCC/NCI/AYM/WD/HOSPIT/01	R1
Drawing No.	Rev.
Job No.	Scale
App by	planning Rev. by
	D.B VASHIST
	Prep. by
	07-02-2017 Date

HSCC (INDIA) LIMITED  
 (A GOVERNMENT OF INDIA ENTERPRISES)  
**HSCC**  
 NEW DELHI INDIA

SCOPE OF AREA



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NOTES

- ALL DIMENSIONS ON THIS DRAWING ARE IN METERS.
- THIS DRAWING IS FOR INFORMATION ONLY. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS ON THE SITE BEFORE COMMENCING WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY APPROVALS FROM THE LOCAL AUTHORITIES AND OTHER AGENCIES.
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INTERNAL SCHEDULE OF FINISHES

Room No.	Room Name	Finish	Remarks
101	ARU	White Emulsion Paint	
102	ARU	White Emulsion Paint	
103	ARU	White Emulsion Paint	
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199	ARU	White Emulsion Paint	
200	ARU	White Emulsion Paint	

REV	DATE	DESCRIPTION

PROJECT  
NCI - AIIMS  
AT JHAJJAR  
HARYANA

TITLE  
WORKING DRAWING  
HOSPITAL BLOCK  
GROUND FLOOR

HSCC/NCI/AY/WD/HOSPIT/01	R5	Rev.
Drawing No.		
Job No.	L/125	01-02-2017
	Scale	Date
	planning	
	Rev. by	
App by	D.B.VASHISTI	Prep. by

HSCC (INDIA) LIMITED  
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**HSCC**  
NEW DELHI INDIA