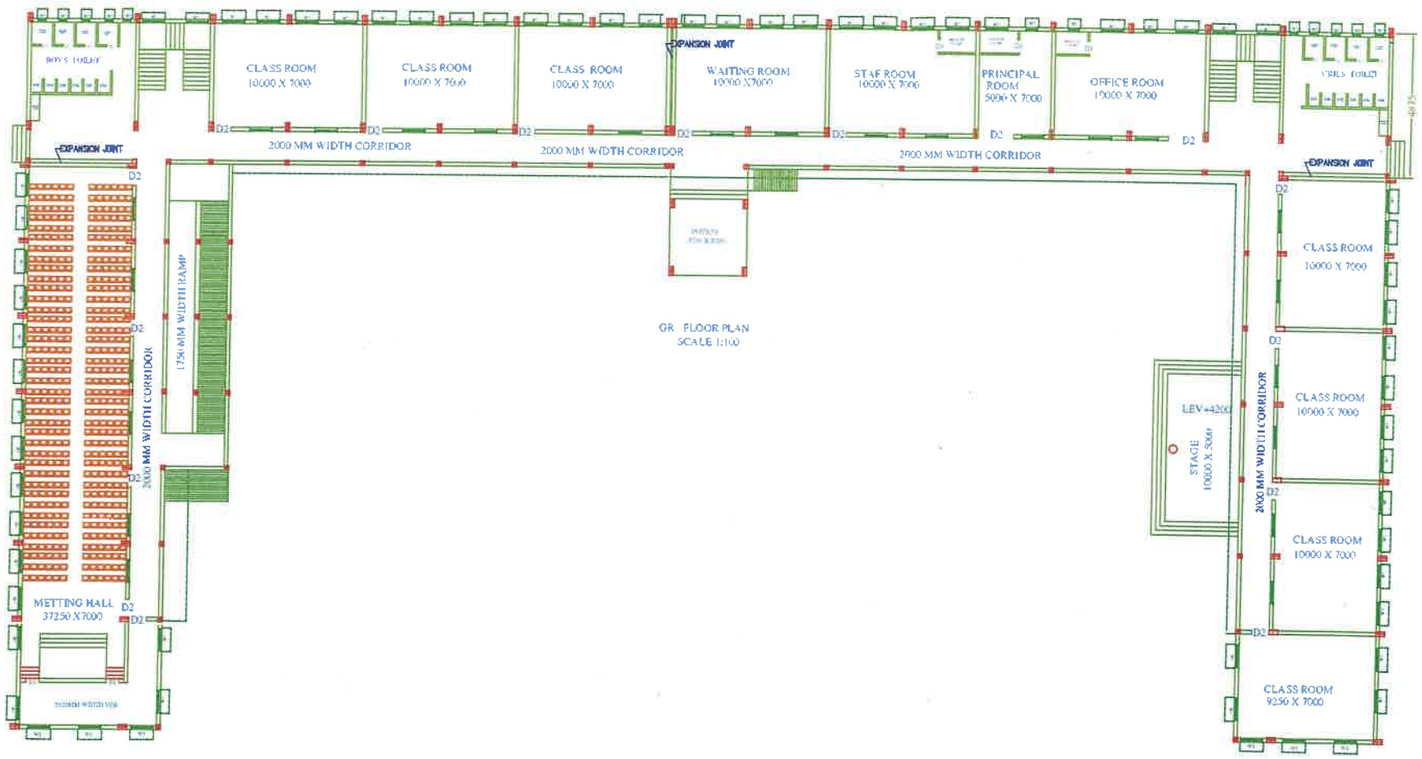



GR FLOOR PLAN
SCALE 1:100

**NOTES :-**

1. CONC. GRADE SHALL BE M25 AS PER IS:456.
2. REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (TMT) BARS (GRADE Fe 500D) CONFORMING TO IS:1786.
3. CLEAR COVER OF OUTER LAYER REINF. SHALL BE AS FOLLOWS.
   (a) FOOTING = 50 mm. (b) COLUMN = 40 mm.
   (c) BEAM = 25mm. OR DIA OF BAR WHICHEVER IS MORE
   (d) SLAB = 20 mm. (e) WAIST SLAB = 20mm.
4. DEVELOPMENT LENGTH (Ld) FOR DIFFERENT DIAMETER OF FOR CONC. MIX OF GRADE M-25=49XDIA.

GOOD FOR CONSTRUCTION
निर्माण के लिए स्वीकृत

M/S SWASTIKARMA Reg No M1784875 BBSR

| REF. DRG. NO. | REF. DRG. TITLE |
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| SK/ST/2023/01/008/000 | GENERAL NOTES DRAWING |
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| SR.No. | REVISION No. | DATE | REMARK |
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**CLIENT :**
BARSUA IRON MINES , SAIL

**EXECUTE AGENCY :**
NARENDRA KUMAR SINGH
AT - SAMALEI VIHAR , PANCHAGACHHIA ,
BARAIPALI , SAMBALPUR-768006

**CONSULTING ENGINEERS:**
M/S SWASTIKARMA
DESIGN MEETS FUTURE
swastikarma22@gmail.com
contact :- 9437818000

**PROJECT :**
CONSTRUCTION OF A NEW SCHOOL BUILDING WITH 30 NOS. ROOMS INCLUDING CLASS ROOM , EXAM ROOM , STAFF ROOM , MATH LAB , LIBRARY , GAMES & SPORTS ROOM , SICK ROOM , NCC ROOM , ART & CRAFT ROOM , MEETING HALL (WITH STAGE) ETC. FOR DAV SCHOOL AT BARSUA IRON MINES, PLOT NO. 54, VILLAGE TENSA

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|---|---|---|
| TYPE OF BUILDING : SCHOOL BUILDING | | |
| DRAWING TITLE : Gr. FLOOR PLAN | | |
| DRAWING NUMBER : SK/ST/2023/01/009/06 | | |
| DRAWN BY : AS | SCALE : NTS | REV NO.: 00 |
| CHECKED BY : BSN | PRINT DATE : 27-01-2023 | DPR / AFC - |
| APPROVED BY : BSN | SHEET No. : 01 OF 04 | |

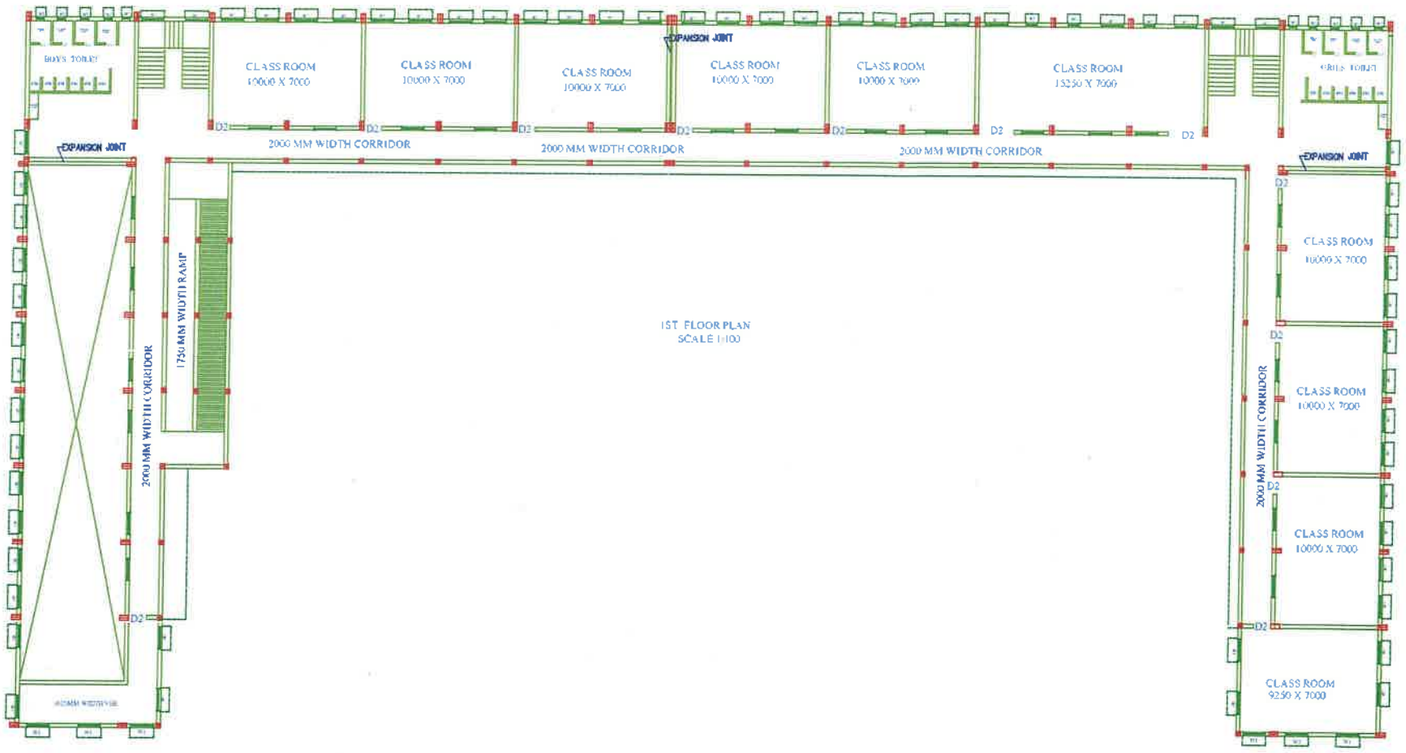
Junior Engineer 21/1/26
Koira Block

Asst. Exe. Engineer
Koira Block

SUBHENDU KUMAR SAHOO
DGM (PROJECTS)
SAIL, CMLO, BIM

Ajay
AASHISH JAIN
Manager (Projects)
Barsua Iron Mine, SAIL RSP

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1ST FLOOR PLAN
SCALE 1:100

NOTES :-

1. CONC. GRADE SHALL BE M25 AS PER IS:456.
2. REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (TMT) BARS (GRADE Fe 500D) CONFORMING TO IS:1786.
3. CLEAR COVER OF OUTER LAYER REINF. SHALL BE AS FOLLOWS.
   (a) FOOTING = 50 mm. (b) COLUMN = 40 mm.
   (c) BEAM = 25mm. OR DIA OF BAR WHICHEVER IS MORE
   (d) SLAB = 20 mm. (e) WAIST SLAB = 20mm.
4. DEVELOPMENT LENGTH (Ld) FOR DIFFERENT DIAMETER OF FOR CONC. MIX OF GRADE M-25=49XDIA.

GOOD FOR CONSTRUCTION
निर्माण के लिए स्वीकृत

M/S SWASTIKARMA
Reg No MA784875
BBSR

| REF. DRG. NO. | REF. DRG. TITLE |
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CLIENT :
BARSUA IRON MINES , SAIL

EXECUTE AGENCY :
NARENDRA KUMAR SINGH
AT - SAMALEI VIHAR , PANCHAGACHHIA ,
BARAIPALI , SAMBALPUR-768006

CONSULTING ENGINEERS:
M/S SWASTIKARMA
DESIGN MEETS FUTURE
swastikarma22@gmail.com
contact :- 9437818000

PROJECT :
CONSTRUCTION OF A NEW SCHOOL BUILDING WITH 30 NOS. ROOMS INCLUDING CLASS ROOM , EXAM ROOM , STAFF ROOM , MATH LAB , LIBRARY , GAMES & SPORTS ROOM , SICK ROOM , NCC ROOM , ART & CRAFT ROOM , MEETING HALL (WITH STAGE) ETC. FOR DAV SCHOOL AT BARSUA IRON MINES, PLOT NO. 54, VILLAGE TENSA

TYPE OF BUILDING : SCHOOL BUILDING

DRAWING TITLE : FIRST FLOOR PLAN

DRAWING NUMBER : SK/ST/2023/01/009/06

| DRAWN BY : | SCALE : | REV NO.: 00 |
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| AS | NTS | |
| CHECKED BY : | PRINT DATE : | DPR – ● |
| DGN | 27.01.2023 | APC – ○ |
| APPROVED BY : | SHEET No. : | |
| BSN | 02 OF 04 | |

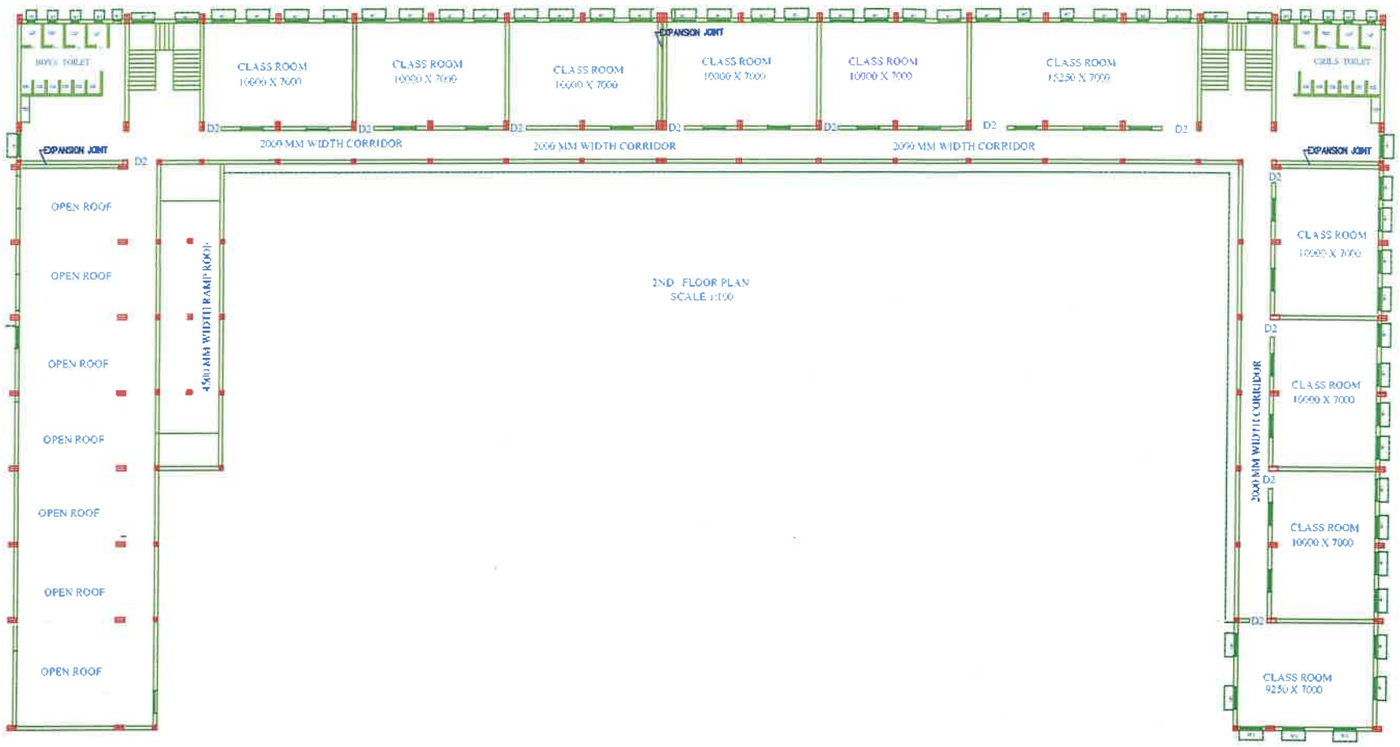
Junior Engineer
Koira Block

Asst. Exe. Engineer
Koira Block

SUBHENDU KUMAR SAHOO
DGM (PROJECTS)
SAIL, CMLO, BIM

AASHISH JAIN
Manager (Projects)
Barsua Iron Mine, SAIL-RSP

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NOTES :-

1. CONC. GRADE SHALL BE M25 AS PER IS:456.
2. REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (TMT) BARS (GRADE Fe 500D) CONFORMING TO IS:1786.
3. CLEAR COVER OF OUTER LAYER REINF. SHALL BE AS FOLLOWS.
   (a) FOOTING = 50 mm. (b) COLUMN = 40 mm.
   (c) BEAM = 25mm. OR DIA OF BAR WHICHEVER IS MORE
   (d) SLAB = 20 mm. (e) WAIST SLAB = 20mm.
4. DEVELOPMENT LENGTH (Ld) FOR DIFFERENT DIAMETER OF FOR CONC. MIX OF GRADE M-25=49XDIA.

GOOD FOR CONSTRUCTION
निर्माण के लिए स्वीकृत

M/S SWASTIKARMA Reg No M1[illegible] BBSR

| REF. DRG. NO. | REF. DRG. TITLE |
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| SR.No. | REVISION No. | DATE | REMARK |
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**CLIENT :**
BARSUA IRON MINES , SAIL

**EXECUTE AGENCY :**
NARENDRA KUMAR SINGH
AT - SAMALEI VIHAR , PANCHAGACHHIA ,
BARAIPALI , SAMBALPUR-768006

**CONSULTING ENGINEERS:**
M/S SWASTIKARMA
DESIGN MEETS FUTURE
swastikarma22@gmail.com
contact :- 9437818000

**PROJECT :**
CONSTRUCTION OF A NEW SCHOOL BUILDING WITH 30 NOS. ROOMS INCLUDING CLASS ROOM , EXAM ROOM , STAFF ROOM , MATH LAB , LIBRARY , GAMES & SPORTS ROOM , SICK ROOM , NCC ROOM , ART & CRAFT ROOM , MEETING HALL (WITH STAGE) ETC. FOR DAV SCHOOL AT BARSUA IRON MINES, PLOT NO. 54, VILLAGE TENSA

TYPE OF BUILDING : SCHOOL BUILDING

DRAWING TITLE : SECOND FLOOR PLAN

DRAWING NUMBER : SK/ST/2023/01/009/06

| DRAWN BY : | SCALE : | REV NO.: 00 |
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| AS | NTS | |
| CHECKED BY : | PRINT DATE : | DPR - ● |
| BSN | 27-01-2023 | AFC - ○ |
| APPROVED BY : | SHEET No. : | |
| BSN | 03 OF 04 | |

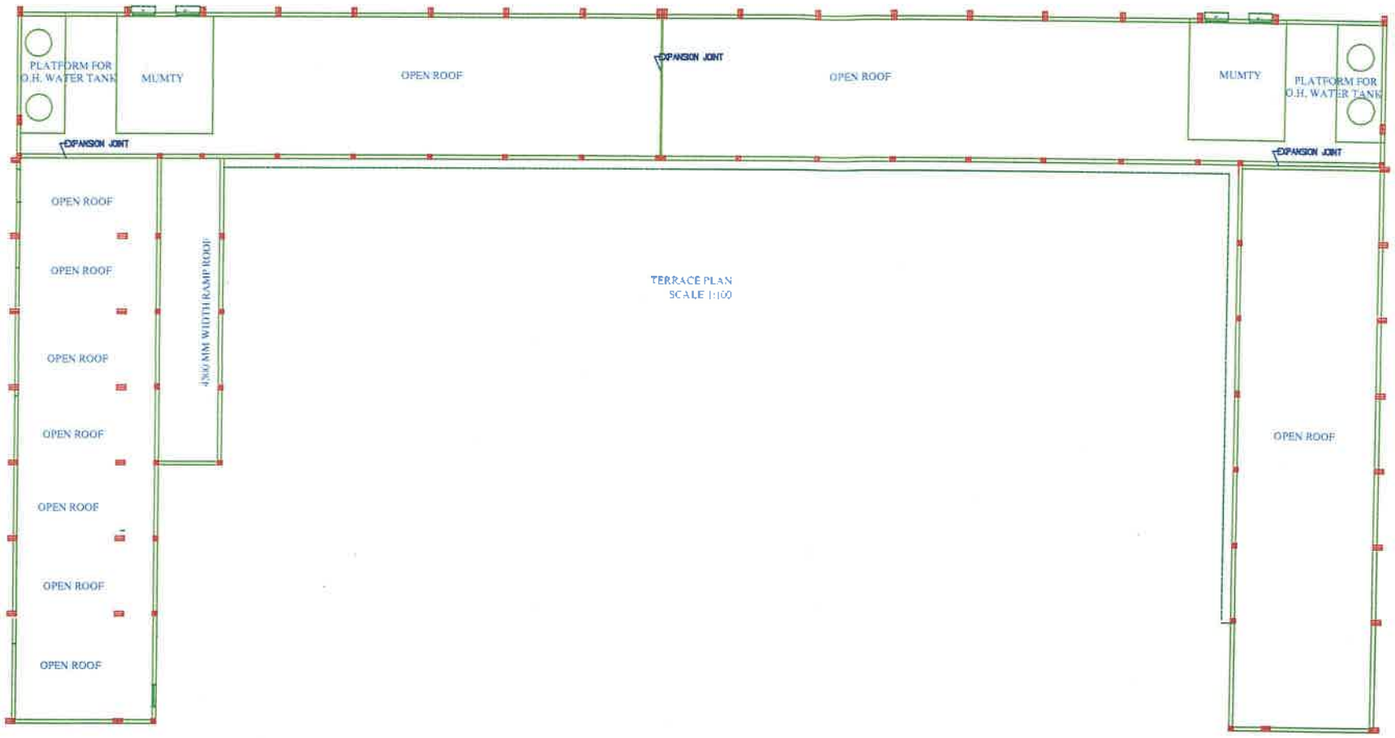
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Junior Engineer
Koira Block

Asst. Exe. Engineer
Koira Block

SUBHENDU KUMAR SAHOO
DGM (PROJECTS)
SAIL, CMLO, BIM

AASHISH JAIN
Manager (Projects)
Barsua Iron Mine, SAIL-RSP




Junior Engineer
Koira Block

Asst. Exe. Engineer
Koira Block

SUBHENDU KUMAR SAHOO
DGM (PROJECTS)
SAIL, CMLO, BIM

AASHISH JAIN
Manager (Projects)
Barsua Iron Mine, SAIL-RSP

NOTES :-

1. CONC. GRADE SHALL BE M25 AS PER IS:456.
2. REINFORCEMENT SHALL BE HIGH STRENGTH DEFORMED (TMT) BARS (GRADE Fe 500D) CONFORMING TO IS:1786.
3. CLEAR COVER OF OUTER LAYER REINF. SHALL BE AS FOLLOWS.
   (a) FOOTING = 50 mm. (b) COLUMN = 40 mm.
   (c) BEAM = 25mm. OR DIA OF BAR WHICHEVER IS MORE
   (d) SLAB = 20 mm. (e) WAIST SLAB = 20mm.
4. DEVELOPMENT LENGTH (Ld) FOR DIFFERENT DIAMETER OF FOR CONC. MIX OF GRADE M-25=49XDIA.

GOOD FOR CONSTRUCTION
निर्माण के लिए स्वीकृत

M/S SWASTIKARMA Reg No M17/1875 BBSR

| REF. DRG. NO. | REF. DRG. TITLE |
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CLIENT :
BARSUA IRON MINES , SAIL

EXECUTE AGENCY :
NARENDRA KUMAR SINGH
AT - SAMALEI VIHAR , PANCHAGACHHIA ,
BARAIPALI , SAMBALPUR-768006

CONSULTING ENGINEERS:
M/S SWASTIKARMA
DESIGN MEETS FUTURE
swastikarma22@gmail.com
contact :- 9437818000

PROJECT :
CONSTRUCTION OF A NEW SCHOOL BUILDING WITH 30 NOS. ROOMS INCLUDING CLASS ROOM , EXAM ROOM , STAFF ROOM , MATH LAB , LIBRARY , GAMES & SPORTS ROOM , SICK ROOM , NCC ROOM , ART & CRAFT ROOM , MEETING HALL (WITH STAGE) ETC. FOR DAV SCHOOL AT BARSUA IRON MINES, PLOT NO. 54, VILLAGE TENSA

TYPE OF BUILDING : SCHOOL BUILDING

DRAWING TITLE : TERRACE PLAN

DRAWING NUMBER : SK/ST/2023/01/009/D6

| DRAWN BY : | SCALE : | REV NO.: 00 |
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| AS | NTS | |
| CHECKED BY : BSN | PRINT DATE : 27-01-2023 | DPR – ● AFC – ○ |
| APPROVED BY : BSN | SHEET No. : 04 OF 04 | |

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# M/S SWASTIKARMA

LETTER NO.-SK/STR/08/2026-02 DATE: - 07-AUG-2026

## STRUCTURAL STABILITY CERTIFICATE

This is to certify that I have examined the structural design calculations, structural drawings, architectural drawings, geotechnical investigation report, and other relevant documents pertaining to the **Construction of a New School Building with 30 Nos. Rooms, including Class Rooms, Examination Room, Staff Room, Mathematics Laboratory, Library, Games & Sports Room, Sick Room, NCC Room, Art & Craft Room, Meeting Hall (with Stage), and other allied facilities for DAV School at Barsua Iron Mines, Rourkela, District Sundargarh, Odisha.**

Based on my examination and verification of the design documents, I hereby certify the following:

1. The structural design of the proposed school building has been carried out in accordance with the provisions of the latest applicable Indian Standard (IS) Codes and the National Building Code (NBC) of India.
2. The design has duly considered all applicable loading conditions, including:
    - Dead Load (DL)
    - Live Load (LL)
    - Wind Load (WL)
    - Earthquake Load (EL)
    - Other applicable design loads as per relevant IS Codes.
3. The structure has been designed in compliance with the following standards, wherever applicable:
    - IS 456:2000 – Plain and Reinforced Concrete – Code of Practice.
    - IS 875 (Part 1 to Part 5) – Code of Practice for Design Loads.
    - IS 1893 (Part 1):2016 – Criteria for Earthquake Resistant Design of Structures.
    - IS 13920:2016 – Ductile Detailing of Reinforced Concrete Structures Subjected to Seismic Forces.
    - IS 1904 – Design and Construction of Foundations in Soils.
    - National Building Code (NBC) of India, 2016.
    - Other relevant BIS Codes applicable to the project.
4. The foundation system has been designed based on the recommendations of the approved geotechnical investigation report and the safe bearing capacity of the soil at the project site.
5. The structural members, including foundations, columns, beams, slabs, staircases, lintels, retaining structures (where applicable), and roof framing members, have been designed to safely withstand all prescribed design loads with adequate factors of safety.
6. The proposed structural system is adequate to ensure the safety, strength, serviceability, and durability of the building throughout its intended design life, provided construction is executed strictly in accordance with the approved structural drawings, specifications, quality control procedures, and good engineering practices.
7. Based on the structural analysis and design carried out, the proposed **New School Building for DAV School at Barsua Iron Mines, Rourkela, Sundargarh** is structurally stable and safe for its intended educational occupancy.

This certificate is issued based on the structural design documents, calculations, and technical information made available to me and is intended solely for submission to the concerned statutory authority/client for obtaining necessary approvals.

Yours sincerely,

M/s. SWASTIKARMA

Proprietor 7/08/2026.

M/S SWASTIKARMA Reg No M1784875

For M/s Swastikarma

GSTIN: 21BTWPP8078B1ZA, PAN: BTWPP8078B, UDYAM: UDYAM-OD-01-0008053
Plot No.-244, Bomikhal,Near Santoshi maa Temple,bbsr-751010
Email: swastikarma22@gmail.com, +91-9437818000

ପଞ୍ଚାୟତ ସମିତି କାର୍ଯ୍ୟାଳୟ, କୋଇଡା, ଜିଲ୍ଲା- ସୁନ୍ଦରଗଡ଼, ଓଡ଼ିଶା

At /Po- Koira, District- Sundargarh, State-Odisha
Pin- 770048, email: ori-koira@nic.in

**Letter No** 2774 **Date** 16/10/2026

To

The Sarpanch Tensa/ PEO, Tensa

Sub: Deposition of scrutiny fees of G+2 Storied Building Plan for approval

Madam,

With reference to the subject cited above, I am to say that a scrutiny fees mat received from BIM, Tensa towards the G+2 storied Building plan for approval and issued money receipt RS. 24,355/- (Twenty-four thousand three hundred fifty-five only). This amount to be deposited account of GP fund. Total Building area is 4871 Sqm @5/- per Sqm.

This is for favour of your kind information and necessary action

Yours faithfully,

Block Development Officer,
Koida

Memo. 2775 Date. 16/10/2026

Copy forwarded to Project Manager, BIM for kind information and necessary action and intimate same to under singed.

Block Development Officer,
Koida

Scanned with OKEN Scanner

ଫର୍ମ ନଂ-୭(FORM NO-7)

ନିୟମ ୬୧(୧),୭.୭୯,(୩),୭୯(ଠ)୭୬,୫୭(୩),୭୭(ଠ)ଦ୍ରଷ୍ଟବ୍ୟ

ବିବିଧ ଆଦାୟ(ମୂଳ)MISCELLANEOUS RECEIPT 51

ତା...31/10/2026 ରସିଦ ନଂ.....

Tensa ଗ୍ରାମ ପଞ୍ଚାୟତ Tensa

Project Manager BIM ଙ୍କ ଠାରୁ ଗୃହୀତ

କାରଣ ଉପରେ

ଟଙ୍କା(ଗୋଦାବଳୀରେ) Rs!-24335 Twenty four thousand three hundred Thirty five Only

(ସଂଖ୍ୟାରେ)ଟ। 28/10/2026

ତାରିଖରେ,ଗ୍ରାମପଞ୍ଚାୟତରେ ଜମା କରିଯାଇଛି।

Executive Officer TENSA GPS

ସେକ୍ରେଟେରୀ/କାର୍ଯ୍ୟନିର୍ବାହୀ ଅଧିକାରୀ