附件1

矿产资源绿色开发利用方案（三合一）信息表

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 一、矿权基本信息 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 采/探矿权人 | | | | | | | | 遵义汇顺通建材有限公司 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 矿山名称 | | | | | | | | 遵义市播州区三合镇长青村范家坡采石场 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 采矿许可证号 | | | | | | | | C5203212017107130145156 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 开采矿种 | | | | | | | | 建筑用砂 | | | | | | | | | | | | | | | 开采方式 | | | | | | | | | | | | | | | 露天开采 | | | | | |
| 开拓方式 | | | | | | | | 公路运输开拓 | | | | | | | | | | | | | | | 采矿方法 | | | | | | | | | | | | | | | 中深孔爆破 | | | | | |
| 生产规模（万吨/年） | | | | | | | | 60 | | | | | | | | | | | | | | | 矿区面积（km2） | | | | | | | | | | | | | | | 0.419 | | | | | |
| 有效期限 | | | | | | | | 2022年05月至2027年10月 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 发证机关 | | | | | | | | 遵义市播州区自然资源局 | | | | | | | | | | | | | | | 发证时间 | | | | | | | | | | | | | | | 2022年05月 | | | | | |
| 开采深度 | | | | | | | | 894米至830米标高 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 拐点坐标 | | | | | | | | |  |  |  |  |  | | --- | --- | --- | --- | --- | | 拐点编号 | 西安80坐标系 | | 2000国家大地坐标系 | | | X | Y | X | Y | | 1 | 3040091.160 | 36378399.480 | 3040095.02 | 36378513.30 | | 2 | 3040072.080 | 36378658.870 | 3040075.94 | 36378772.69 | | 3 | 3039896.970 | 36378779.430 | 3039900.83 | 36378893.25 | | 4 | 3039135.610 | 36378629.600 | 3039139.47 | 36378743.40 | | 5 | 3039249.200 | 36378164.450 | 3039253.10 | 36378278.26 | | 6 | 3039972.640 | 36378283.850 | 3039976.50 | 36378397.66 | | 7 | 3039977.470 | 36378383.550 | 3039981.33 | 36378497.37 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 评审目的 | | | | | | | | □ 新立 □延续 √变更（根据实际情况选择打“√”） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 二、矿产资源开发利用 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| （一）非煤矿山资源开发利用指标 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 矿种名称 | | | | | | | | | | | | | | 建筑用砂 | | | | | | | | | | | 保有资源储量（万吨） | | | | | | | | | | | | | | | | 2253.17 | | |
| 设计利用资源储量（万吨） | | | | | | | | | | | | | | 1915.19 | | | | | | | | | | | 设计利用资源储量利用率（%） | | | | | | | | | | | | | | | | 95 | | |
| 设计可采储量（万吨） | | | | | | | | | | | | | | 1819.43 | | | | | | | | | | | 采区回采率（%） | | | | | | | | | | | | | | | | 95 | | |
| 矿井水综合利用率（%） | | | | | | | | | | | | | | / | | | | | | | | | | |  | | | | | | | | | | | | | | | |  | | |
| （二）煤炭资源开发利用指标 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 矿种名称 | | | | | | | | | | | | | | / | | | | | | | | | | | 保有资源储量（万吨） | | | | | | | | | | | | | | | | / | | |
| 设计利用资源储量（万吨） | | | | | | | | | | | | | | / | | | | | | | | | | | 设计利用资源储量利用率（%） | | | | | | | | | | | | | | | | / | | |
| 设计可采储量（万吨） | | | | | | | | | | | | | | / | | | | | | | | | | | 薄煤层采区回采率（%） | | | | | | | | | | | | | | | | / | | |
| 煤矸石综合利用率（%） | | | | | | | | | | | | | | / | | | | | | | | | | | 中厚煤层采区回采率（%） | | | | | | | | | | | | | | | | / | | |
| 瓦斯抽采利用率（%） | | | | | | | | | | | | | | / | | | | | | | | | | | 矿井水综合利用率（%） | | | | | | | | | | | | | | | | / | | |
| （三）非煤矿山采选指标 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 矿石地质品位（%） | | | | | | | | | | | | | | / | | | | | | | | | | | 采出矿石品位（%） | | | | | | | | | | | | | | | | / | | |
| 设计选厂规模（万吨/年） | | | | | | | | | | | | | | / | | | | | | | | | | | 入选能力（万吨/年） | | | | | | | | | | | | | | | | / | | |
| 精矿产量（万吨/年） | | | | | | | | | | | | | | / | | | | | | | | | | | 精矿品位（%） | | | | | | | | | | | | | | | | / | | |
| 原矿入选品位（%） | | | | | | | | | | | | | | / | | | | | | | | | | | 尾矿品位（%） | | | | | | | | | | | | | | | | / | | |
| （四）煤炭入洗指标 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 原煤入洗率（%） | | | | | | | | | | | | | | / | | | | | | | | | | | 原煤年入洗能力（万吨/年） | | | | | | | | | | | | | | | | / | | |
| 入洗原煤灰分（%） | | | | | | | | | | | | | | / | | | | | | | | | | | 精煤年产量（万吨/年） | | | | | | | | | | | | | | | | / | | |
| 精煤灰分（%） | | | | | | | | | | | | | | / | | | | | | | | | | |  | | | | | | | | | | | | | | | | / | | |
| （五）尾矿利用 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 尾矿库容积（m3） | | | | | | | | | | | | | | / | | | | | | | | | | | 尾矿库容积（m3） | | | | | | | | | | | | | | | | / | | |
| 占地面积（hm2） | | | | | | | | | | | | | | / | | | | | | | | | | | 占地面积（hm2） | | | | | | | | | | | | | | | | / | | |
| 当年产生量（万吨） | | | | | | | | | | | | | | / | | | | | | | | | | | 当年产生量（万吨） | | | | | | | | | | | | | | | | / | | |
| （六）废（矸）石利用 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 废（矸）石场 | | | | | | | | | | | | | | / | | | | | | | | | | | 废（矸）石场占地面积（hm2） | | | | | | | | | | | | | | | | / | | |
| 当年产生量（万吨） | | | | | | | | | | | | | | / | | | | | | | | | | | 当年利用量（万吨） | | | | | | | | | | | | | | | | / | | |
| 年末累计存量（万吨） | | | | | | | | | | | | | | / | | | | | | | | | | | 利用方式 | | | | | | | | | | | | | | | | / | | |
| （七）共（伴）生矿产利用 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 可利用共（伴）生矿产（成分）名称 | | | | 设计指标 | | | | | | | | | | | | | | | | | | | | | | 生产实际指标 | | | | | | | | | | | | | | | | | |
| 入选品位（%） | | | | | | | | | | | 选矿回收率（%） | | | | | | | | | | | 入选矿石量  （万吨/年） | | | | | | | 入选矿石品位（%） | | | | | | | | 选矿回收率 （%） | | |
| / | | | | / | | | | | | | | | | | / | | | | | | | | | | | / | | | / | | | | | | | | | | | | / | | |
| **三、土地复垦** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 土地利用现状 | 损毁前土地类型 | | | | | | | | | | | | | | | 工程类型使用土地（hm2） | | | | | | | | | | | | 其中 | | | | | | | | | | | | | | | |
| 名称 | | | | 名称 | | | | | | | | | | | 采区及地面生产生活设施用地 | | | | | | | | | | | 小计 | 已损毁（hm2） | | | | | | 拟损毁（hm2） | | | | | 占用 | | | | 小计 |
| 一级类 | | | | 二级类 | | | | | | | | | | |  | | | | | | | | | | |  |  | | | | | |  | | | | |  | | | |  |
| 耕地 | | | | 水田 | | | | | | | | | | | 0.4949 | | | | | | | | | | |  | 0.4949 | | | | | | 0.0000 | | | | |  | | | | 0.4949 |
| 旱地 | | | | | | | | | | | 5.5231 | | | | | | | | | | |  | 2.3781 | | | | | | 3.1450 | | | | |  | | | | 5.5231 |
| 园地 | | | | 果园 | | | | | | | | | | | 2.3347 | | | | | | | | | | |  | 2.3347 | | | | | | 0.0000 | | | | |  | | | | 2.3347 |
| 林地 | | | | 乔木林地 | | | | | | | | | | | 0.9050 | | | | | | | | | | |  | 0.0000 | | | | | | 0.9050 | | | | |  | | | | 0.9050 |
| 灌木林地 | | | | | | | | | | | 12.3063 | | | | | | | | | | |  | 1.9270 | | | | | | 10.3793 | | | | |  | | | | 12.3063 |
| 草地 | | | | 其他草地 | | | | | | | | | | | 1.6634 | | | | | | | | | | |  | 1.6634 | | | | | | 0.0000 | | | | |  | | | | 1.6634 |
| 其他用地 | | | | 裸地 | | | | | | | | | | | 0.3060 | | | | | | | | | | |  | 0.0000 | | | | | | 0.3060 | | | | |  | | | | 0.3060 |
| 合计 | | | | | | | | | | | | | | | 23.5334 | | | | | | | | | | |  | 8.7981 | | | | | | 14.7353 | | | | |  | | | | 23.5334 |
|  |  | | | | 面积（hm2） | | | | | | | | | | | | | | | | | | | | | | | 其中 | | | | | | | | | | | | | | | |
| 用地损毁类型 | 工程类型 | | | | 损毁 | | | | | | | | | | | 塌陷 | | 压占 | | | | | | | | | 小计 | 已损毁（hm2） | | | | 拟损毁（hm2） | | | | | 占用 | | | | | | 小计 |
| 开采区 | | | | 16.0338 | | | | | | | | | | |  | |  | | | | | | | | | 16.0338 | 6.6351 | | | | 9.3987 | | | | |  | | | | | | 16.0338 |
| 地面生产生活设施用地 | | | |  | | | | | | | | | | |  | | 7.4996 | | | | | | | | | 7.4996 | 2.1630 | | | | 5.3366 | | | | |  | | | | | | 7.4996 |
| 合计 | | | | 6.4822 | | | | | | | | | | |  | | 2.5683 | | | | | | | | | 9.0505 | 8.7981 | | | | 14.7353 | | | | |  | | | | | | 23.5334 |
| 复垦后土地利用现状 | 拟复垦土地类型 | | | | | | | | | | | | | | | 项目类型占地面积（hm2） | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 名称 | | | | 名称 | | | | | | | | | | | 开采区及地面生产生活设施用地 | | | | | | | | | | | | | | | | | | | | 合计 | | | | | | | |
| 一级类 | | | | 二级类 | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| 耕地 | | | | 旱地 | | | | | | | | | | | 14.3594 | | | | | | | | | | | | | | | | | | | | 14.3594 | | | | | | | |
| 林地 | | | | 乔木林地 | | | | | | | | | | | 4.0102 | | | | | | | | | | | | | | | | | | | | 4.0102 | | | | | | | |
| 其他林地 | | | | | | | | | | | 5.1638 | | | | | | | | | | | | | | | | | | | | 5.1638 | | | | | | | |
|  | | | |  | | | | | | | | | | |  | | | | | | | | | | | | | | | | | | | |  | | | | | | | |
| 合计 | | | | | | | | | | | | | | | 23.5334 | | | | | | | | | | | | | | | | | | | | 23.5334 | | | | | | | |
| 复垦工程施工费用估算（万元） | | | | | | | | | | | | | | | | | | | 491.13 | | | | | | | | | | | | | | | | | | | | | | | |
| 土地复垦实施情况 | 复垦区面积（hm2） | | | | | | | | | | 23.5334 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 复垦区内地面设施用地合计（hm2） | | | | | | | | | | 23.5334 | | | | | | 永久性用地（hm2） | | | | | / | | | | | | | | | | 已塌陷损毁土地面积（hm2） | | | | | | | | | | / | |
| 复垦区预测塌陷损毁土地面积（hm2） | | | | | | | | | | / | | | | | | | | | | | 占总面积（%） | | | | | | | | | | | / | | | | | | | | | | |
| 复垦区土地  面积（hm2） | | | | | | | | | | 23.5334 | | | | | | | | | | | 占总面积（%） | | | | | | | | | | | 100 | | | | | | | | | | |
| 土地复垦实施计划 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第一复垦期 | | | | | | | | 2021年08月～2027年10月：设置排土场，对耕作层、犁地层分别剥离、堆放；对开采边坡区域覆土0.20m，栽植红叶石楠、播撒草籽复垦为其他林地。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 第二复垦期 | | | | | | | | 2027年11月到2028年10月（关闭期）：闭坑后进行全面复垦。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|  | | | | | | | |  | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 土地复垦静态投资估算（万元） | | | | | | | | 533.72 | | | | | | | | | | | | 平均投资估算（元/m2） | | | | | | | | | | | | | | 18840 | | | | | | | | |
| 土地复垦动态投资估算（万元） | | | | | | | | 670.43 | | | | | | | | | | | | 平均投资估算（元/m2） | | | | | | | | | | | | | | 18993 | | | | | | | | |
| 拟采取复垦方式 | | | | | | | | √矿山企业自行复垦 □委托中价机构复垦 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 四、矿山地质环境修复治理 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 现  状  调  查  情  况 | 类型 | | | | | | | | | 调查内容（发生时间、发生地点、规模、影响范围、体积、危害、发生原因、防治情况等） | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 矿山地质灾害 | | | | | | | | | 矿山无现状地质灾害。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 含水层破坏 | | | | | | | | | 矿山开采对含水层的破坏较轻。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 土地资源与  植被损毁 | | | | | | | | | 矿山开采及工业场地建设造成土地资源与植被损毁，  已损毁面积为8.7981hm2。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 地形地貌景观破坏 | | | | | | | | | 矿山开采及工业场地建设已造成地形地貌景观破坏。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 地质环境影响预测 | | | | | | | | | | 受矿山开采影响程度严重。包括矿区拟开采范围、工业场地及其影响范围，预测环境影响严重区面积约40.5007hm2。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 矿山地质环境治理  恢复工程部署 | | | | | | | | | | 2021年08月～2022年07月（近期）：修建三级沉淀池1口，截排水沟1110m，搭建护栏2100m，边坡危岩清理，乔木种植563株，地质灾害监测点5处；  2022年08月～2027年10月（中期）：边坡危岩清理，葛藤种植440株，地质灾害监测点5处；  2027年11月～2028年10月（远期）：矿山闭坑后进行地质环境治理工程。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 分区 | | | | | | 编号 | | | | | | 位置 | | | | | | | | | | | | 面积 | | | | | | 防治措施 | | | | | | | | | | | | | |
| 重点防治区 | | | | | | Ⅰ | | | | | | 矿山工业场地、开采区及开采影响范围 | | | | | | | | | | | | 40.5007 | | | | | | 进行土地复垦恢复，植被重建，地质灾害进行监测等 | | | | | | | | | | | | | |
| 次重点防治区 | | | | | | Ⅱ | | | | | |  | | | | | | | | | | | |  | | | | | |  | | | | | | | | | | | | | |
| 一般防治区 | | | | | | Ⅲ | | | | | | 重点区以外范围 | | | | | | | | | | | | 51.1309 | | | | | | 进行地质灾害进行监测等 | | | | | | | | | | | | | |
| 治理恢复经费估算  （万元） | | | | | | | | | | | | 97.21 | | | | | | | | | | | | 治理恢复基金账户余额（万元） | | | | | | 0 | | | | | | | | | | | | | |
| 矿山地质环境治理恢复工作部署及年度安排 | | | |  |  |  | | --- | --- | --- | | **治理规划区** | **治理对象** | **治理措施** | | 近期治理区  2021年08月～  2022年07月 | 边坡及矿区开采区周边 | 边坡清理；乔木种植；开采区防护栏；三级沉淀池及截排水沟修建；地质灾害监测点设计及监测 | | 中期治理区  2022年08月～  2027年10月 | 在此期间开采后形成的台阶边坡。 | 边坡清理；台阶顶底部种植葛藤；完善地质灾害监测、治理 | | 中远期治理区  2027年11月～  2028年10月 | 开采过程中采空基底、工业场地等。 | 采矿台阶边坡及采矿基底地质灾害的监测、治理、自然环境的恢复；做好土地复垦恢复工作，完成土地复垦配套设施建设。 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| **五、方案编制及评审信息** | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 编  制  单  位 | | 单位名称 | | | | | 遵义汇顺通建材有限公司 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 法人代表 | | | | | 黎德顺 | | | | | | | | | | | | 联系电话 | | | | | | | | | | | | 18585267777 | | | | | | | | | | | | |
| 主要  编制  人员 | | | | | 姓 名 | | | | | | 所在单位 | | | | | | | | | | | | | | | | | | 专 业 | | | | | | | | | 技术职称 | | | | |
| 秦定超 | | | | | | 中化明达西南地质有限公司 | | | | | | | | | | | | | | | | | | 矿产勘查 | | | | | | | | | 高级工程师 | | | | |
| 王志强 | | | | | | 中化明达西南地质有限公司 | | | | | | | | | | | | | | | | | | 水工环地质 | | | | | | | | | 工程师 | | | | |
| 王应录 | | | | | | 中化明达西南地质有限公司 | | | | | | | | | | | | | | | | | | 水工环地质 | | | | | | | | | 高级工程师 | | | | |
| 杨知勇 | | | | | | 中化明达西南地质有限公司 | | | | | | | | | | | | | | | | | | 土地整治 | | | | | | | | | 高级工程师 | | | | |
| 张永亮 | | | | | | 中化明达西南地质有限公司 | | | | | | | | | | | | | | | | | | 工程地质 | | | | | | | | | 助理工程师 | | | | |
|  | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | | |
| 评审专家  组 | | 组成 | | | | | 姓 名 | | | | | | 所在单位 | | | | | | | | | | | | | | | | | | 专 业 | | | | | | | | | 技术职称 | | | | |
| 组长 | | | | | 陈冲 | | | | | | 贵州省地矿局106地质大队 | | | | | | | | | | | | | | | | | | 采矿 | | | | | | | | | 高级工程师 | | | | |
| 成员 | | | | | 肖欣 | | | | | | 贵州省地质环境监测院 | | | | | | | | | | | | | | | | | | 水工环地质 | | | | | | | | | 高级工程师 | | | | |
| 杨春理 | | | | | | 中化地质矿山总局贵州地质勘查院 | | | | | | | | | | | | | | | | | | 地质 | | | | | | | | | 高级工程师 | | | | |
|  | | | | | |  | | | | | | | | | | | | | | | | | |  | | | | | | | | |  | | | | |
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|  | | | | | |  | | | | | | | | | | | | | | | | | | …… | | | | | | | | |  | | | | |
| 评审意见 | | 专家组认为：由遵义汇顺通建材有限公司自行组织技术人员编制的《遵义市播州区三合镇长青村范家坡采石场（修编）矿产资源绿色开发利用方案（三合一）》内容符合贵州省国土资源厅文件（黔自然资发﹝2021﹞5号）“省自然资源厅关于印发贵州省矿产资源绿色开发利用方案（三合一）评审工作指南（暂行）和评审专家管理办法（暂行）的通知”的要求，同意通过评审。。  评审机构（盖章）：  时间： | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

附件2：



















